VGN-BX50PZ/BX90PS/BX90S
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP

SERVICE MANUAL

Ver 4-2005L

Revision History

Area	Model	Lineup	
Japanese	Japanese	VGN-BX50PZ	⚠ [MA]
		VGN-BX90PS	⚠ [MA]
		VGN-BX90PS*	
		VGN-BX90S*	
American	US/Canadian	VGN-AX570G	⚠ [MA]
		VGN-AX580G	⚠ [MA]
		VGN-BX540B*	
		VGN-BX540BH*	
		VGN-BX540BW*	
		VGN-BX540W*	
		VGN-BX541B	
		VGN-BX543B	
		VGN-BX546B	
		VGN-BX560B*	⚠ [MA]
		VGN-BX560BH*	⚠ [MA]
		VGN-BX561B	⚠ [MA]
		VGN-BX563B	⚠ [MA]
		VGN-BX565B	⚠ [MA]
		VGN-BX567B	⚠ [MA]
		VGN-BX570B*	⚠ [MA]
		VGN-BX570BH*	⚠ [MA]
		VGN-BX575B	⚠ [MA]
	Latin	VGN-BX545FP	⚠ [MA]
European	AEP/UK	VGN-BX194VP	
		VGN-BX195EP	
		VGN-BX195SP	⚠ [MA]
		VGN-BX195VP	
		VGN-BX195XP	⚠ [MA]
		VGN-BX196SP	⚠ [MA]
		VGN-BX196VP	⚠ [MA]
		VGN-BX196XP	⚠ [MA]
		VGN-BX197XP	⚠ [MA]
Asian/Oceania/ South Africa	International	VGN-BX168GP	⚠ [MA]
	Chinese	VGN-BX143C	⚠ [MA]
		VGN-BX143CP	⚠ [MA]
		VGN-BX145CP	⚠ [MA]
		VGN-BX165CP	⚠ [MA]
		VGN-BX178CP	⚠ [MA]

* : CTO model

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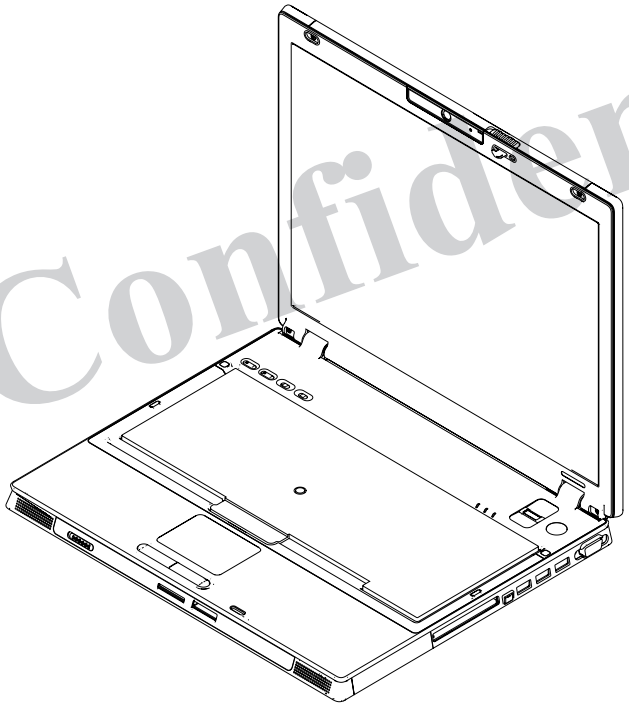

S400 MEMORY STICK WiFi CERTIFIED Bluetooth

VAIO

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PERSONAL COMPUTER

SONY

9-876-420-04

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.
Dispose of used battery promptly.
Keep away from children.

CAUTION: Changing the back up battery.
- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrence; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any rotection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTETION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!
LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉSDANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/BX546B/
BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

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History of the changes is shown as the "Revision History" at the end of this data.

変更履歴は、" Revision History " として、本データ末に記載してあります。

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CHAPTER 1.
SPECIFICATIONS

1-1. Specifications

	J			
Model	VGN-BX50PZ	VGN-BX90PS	VGN-BX90PS*	VGN-BX90S*
CPU	CelM/Do/370/1.50GHz	PM/Do/740/1.73GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/760/2GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/760/2GHz or PM/Do/780/2.26GHz
Chipset	Intel 915GM	Intel 915PM	Intel 915GM Intel 915PM	Intel 915GM Intel 915PM
Graphics	Intel 915GM Integratec	ATI M26-P (128MB)	Intel 915GM Integratec ATI M26-P (128MB)	Intel 915GM Integratec ATI M26-P (128MB)
LCD	14/XGA/EBR	14.1/SXGA+/EBR	14/SXGA+/EBR or 14/SXGA+ or 14/XGA or 14/XGA/EBR	14/SXGA+/EBR or 14/SXGA+ or 14/XGA or 14/XGA/EBR
HDD	40GB	60GB	40GB or 60GB or 80GB or 100GB or 120GB	40GB or 60GB or 80GB or 100GB or 120GB
Memory Std	512MBx1	256MBx2	256MBx1 or 256MBx2 or 512MBx2	256MBx1 or 256MBx2 or 512MBx2
Memory Max	2GB	2GB	2GB	2GB
Optical	Combo/12.7/x24	Combo/12.7/x24	None or Combo/12.7/x24 or DVD-ROM/12.7/x8 or SuperMulti/12.7/x8/+DL	None or Combo/12.7/x24 or DVD-ROM/12.7/x8 or SuperMulti/12.7/x8/+DL
Wireless LAN	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte
Wireless WAN	×	×	×	×
Bluetooth	○	○	○ or ×	○ or ×
Felica	○	○	○ or ×	○ or ×
Built-in Camera	○	×	○	○
Finger Print Sensor	○	○	○	○
Security Chip	○	○	○	○
AC Adapter	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4
Color Variation	Silver	Silver	Silver	Silver
OS	XP Pro	XP Pro	XP Pro	XP Home
Office	None	None	None or 2003 Personal 2003 Professional	None or 2003 Personal 2003 Professional
	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]

	AM									
Model	VGN-BX567B	VGN-BX565B	VGN-BX563B	VGN-BX561B	VGN-BX543B	VGN-BX541B	VGN-BX546B	VGN-BX575B	VGN-AX570G	VGN-AX580G
CPU	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz	PM/Do/760/2GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915PM	Intel 915PM	Intel 915PM	Intel 915PM
Graphics	Intel 915GM Integratec	Intel 915GM Integratec	Intel 915GM Integratec	Intel 915GM Integratec	Intel 915GM Integratec	Intel 915GM Integratec	ATI M26-P (128MB)	ATI M26-P (128MB)	ATI M26-P (128MB)	ATI/M26-P/128MB
LCD	15/WXGA/BR	15/WXGA/BR	15/WXGA/BR	15/WXGA/BR	14/XGA/EBR	14/XGA/EBR	14.1/SXGA+/EBR	17/WXGA+/HC	17/WXGA+/HC	17.0/WXGA+/HC
HDD	100GB	80GB	60GB	40GB	80GB	60GB	80GB	80GB	80GBx2	160GB(80GBx2)
Memory Std	512MBx2	512MBx1	512MBx1	512MBx1	512MBx1	512MBx1	512MBx1	512MBx2	512MBx2	512MBx2
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	Combo/12.7/x24	Combo/12.7/x24	DVD+-RW/12.7/x8/+DL	Combo/12.7/x24	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL
Wireless LAN	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte	802.11bg/Inte
Wireless WAN	×	×	×	×	×	×	×	×	×	×
Bluetooth	×	○	×	×	×	×	○	○	○	○
Felica	×	×	×	×	×	×	×	×	×	×
Built-in Camera	×	○	×	×	×	×	○	○	○	○
Finger Print Sensor	○	○	○	○	○	○	○	○	○	○
Security Chip	○	○	○	○	○	○	○	○	×	×
AC Adapter	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4
Color Variation	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Gray	Gray
OS	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP MCE	XP MCE
Office	None	None	None	None	None	None	None	None	None	None
	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]			⚠[MA]	⚠[MA]	⚠[MA]	⚠ [MA]

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- 機種名に(*)がつくのは、CTOモデルです。

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	AM								
Model	VGN-BX545FP	VGN-BX540BW∗	VGN-BX540B∗	VGN-BX540W∗	VGN-BX540BH∗	VGN-BX570B∗	VGN-BX570BH∗	VGN-BX560B∗	VGN-BX560BH∗
CPU	PM/Do/740/1.73GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz	CelM/Do/370/1.50GHz or PM/Do/740/1.73GHz or PM/Do/750/1.86GHz or ,PM/Do/760/2GHz or PM/Do/770/2.13GHz or PM/Do/780/2.26GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM Intel 915PM	Intel 915GM	Intel 915GM Intel 915PM	Intel 915GM or Intel 915PM	Intel 915GM or Intel 915PM	Intel 915GM Intel 915PM	Intel 915GM Intel 915PM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated ATI M26-P (128MB)	Intel 915GM Integrated	Intel 915GM Integrated ATI M26-P (128MB)	Intel 915GM Integrated or ATI M26-P (128MB)	Intel 915GM Integrated or ATI M26-P (128MB)	Intel 915GM Integrated ATI M26-P (128MB)	Intel 915GM Integrated ATI M26-P (128MB)
LCD	14/XGA/EBR	14/XGA/EBR or 14/SXGA+/EBR	14/XGA/EBR or 14/SXGA+/EBR	14/XGA/EBR or 14/SXGA+/EBR	14/XGA/EBR or 14/SXGA+/EBR or	17.0/WUXGA/HC or 17.0/WXGA+/HC	17.0/WUXGA/HC or 17.0/WXGA+/HC	15.4/WXGA/BR	15.4/WXGA/BR
HDD	80GB	40GB or 60GB or 80GB or 100GB or 120GB	40GB or 60GB or 80GB or 100GB or 120GB	40GB or 60GB or 80GB or 100GB or 120GB	40GB or 60GB or 80GB or 100GB or 120GB	100GB or 40GB or 60GB or 80GB or 120GB or 60GBx2 or 80GBx2 or 100GBx2 or 120GBx2	100GB or 40GB or 60GB or 80GB or 120GB or 60GBx2 or 80GBx2 or 100GBx2 or	100GB or 40GB or 60GB or 80GB or 120GB	100GB or 40GB or 60GB or 80GB or 120GB
Memory Std	256MBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2	256MBx1 or 256MBx2 or 512MBx1 or 512MBx2 or 1GBx1 or 1GBx2
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	Combo/12.7/x24	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None	Combo/12.7/x24 or DVD+-RW/12.7/x8/+DL or None
Wireless LAN	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI	802.11bg/Intel/mPCI
Wireless WAN	×	×	×	×	×	×	×	×	×
Bluetooth	×	○	○	○	○	○	○	○	○
Felica	×	×	×	×	×	×	×	×	×
Built-in Camera	○	○	○	○	○	○	○	○ or ×	○ or ×
Finger Print Sensor	○	○	○	○	○	○	○	○	○
Security Chip	○	○	○	○	○	○	○	○	○
AC Adapter	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4	VGP-BPS4 or VGP-BPL4
Color Variation	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver
OS	XP Pro	XP Pro	XP Pro	XP Home	XP Home	XP Pro	XP Home	XP Pro	XP Home
Office	None	None	None	None	None	None	None	None	None
	⚠[MA]		⚠[MA]		⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA] ⚠[MA]

	EU								
Model	VGN-BX197XP	VGN-BX195XP	VGN-BX195VP	VGN-BX194VP	VGN-BX196XP	VGN-BX196VP	VGN-BX195EP	VGN-BX196SP	VGN-BX195SP
CPU	PM/Do/760/2GHz	PM/Do/750/1.86GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/750/1.86GHz	PM/Do/740/1.73GHz	CelM/Do/380/1.60GHz	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz
Chipset	Intel 915PM	Intel 915PM	Intel 915GM	Intel 915GM	Intel 915PM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM
Graphics	ATI M26-P (128MB)	ATI M26-P (128MB)	Intel 915GM Integrated	Intel 915GM Integrated	ATI M26-P (128MB)	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated
LCD	17/WUXGA/HC	15.0/XGA/BR	15/XGA/BR	14/XGA/EBR	15.4/WXGA/BR	15/WXGA/BR	15/XGA/BR	15/WXGA/BR	15/XGA/BR
HDD	80GBx2	80GB	80GB	80GB	100GB	80GB	60GB	100GB	80GB
Memory Std	1GBx1	512MBx1	512MBx1	512MBx1	512MBx1	512MBx1	256MBx1	512MBx1	512MBx1
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB	2GB
Optical	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL	DVD+-RW/12.7/x8/+DL
Wireless LAN	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel
Wireless WAN	×	×	×	×	×	×	×	×	×
Bluetooth	○	○	×	○	○	×	×	○	○
Felica	×	×	×	×	×	×	×	×	×
Built-in Camera	○	○	×	○	○	×	×	○	○
Finger Print Sensor	○	○	○	○	○	○	○	○	○
Security Chip	○	○	○	○	○	○	○	○	○
AC Adapter	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS4	VGP-BPS4+VGP-BPL4	VGP-BPS4	VGP-BPS4	VGP-BPS4+VGP-BPL4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4
Color Variation	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver	Silver
OS	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro	XP Pro
Office	None	None	None	None	None	None	None	None	None
	⚠[MA]	⚠[MA]			⚠[MA]	⚠[MA]		⚠[MA]	⚠[MA]

	AO					
Model	VGN-BX168GP	VGN-BX165CP	VGN-BX145CP	VGN-BX143CP	VGN-BX143C	VGN-BX178CP
CPU	PM/Do/760/2GHz	PM/Do/750/1.86GHz	PM/Do/750/1.86GHz	PM/Do/740/1.73GHz	PM/Do/740/1.73GHz	PM/Do/760/2GHz
Chipset	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915GM	Intel 915PM
Graphics	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	Intel 915GM Integrated	ATI M26-P (128MB)
LCD	15/WXGA/BR	15.4/WXGA/BR	14.1/XGA/EBR	14.1/XGA/EBR	14.1/XGA/EBR	17.0/WUXGA/HC
HDD	60GB	60GB	60GB	40GB	40GB	80GB(40GBx2)
Memory Std	512MBx1	512MBx1	512MBx1	256MBx1	256MBx1	512MBx1
Memory Max	2GB	2GB	2GB	2GB	2GB	2GB
Optical	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24	Combo/12.7/x24
Wireless LAN	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel	802.11bg/Intel
Wireless WAN	×	×	×	×	×	×
Bluetooth	○	○	○	○	○	○
Felica	×	×	×	×	×	×
Built-in Camera	○	○	○	○	○	○
Finger Print Sensor	○	○	○	○	○	○
Security Chip	○	×	×	×	×	×
AC Adapter	VGP-AC19V11	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10	VGP-AC19V10
Battery	VGP-BPS5	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4	VGP-BPS4
Color Variation	Silver	Silver	Silver	Silver	Silver	Silver
OS	XP Pro	XP Pro	XP Pro	XP Pro	XP Home	XP Pro
Office	None	None	None	None	None	None
	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠ [MA]

- The trademarks or registered trademarks of above table, refer to page 2.
- The model that is accompanied by astarisk (∗) is CTO model.
- 本表中の商標・登録商標については、２ページをご参照下さい。
- 機種名に(∗)がつくのは、CTOモデルです。

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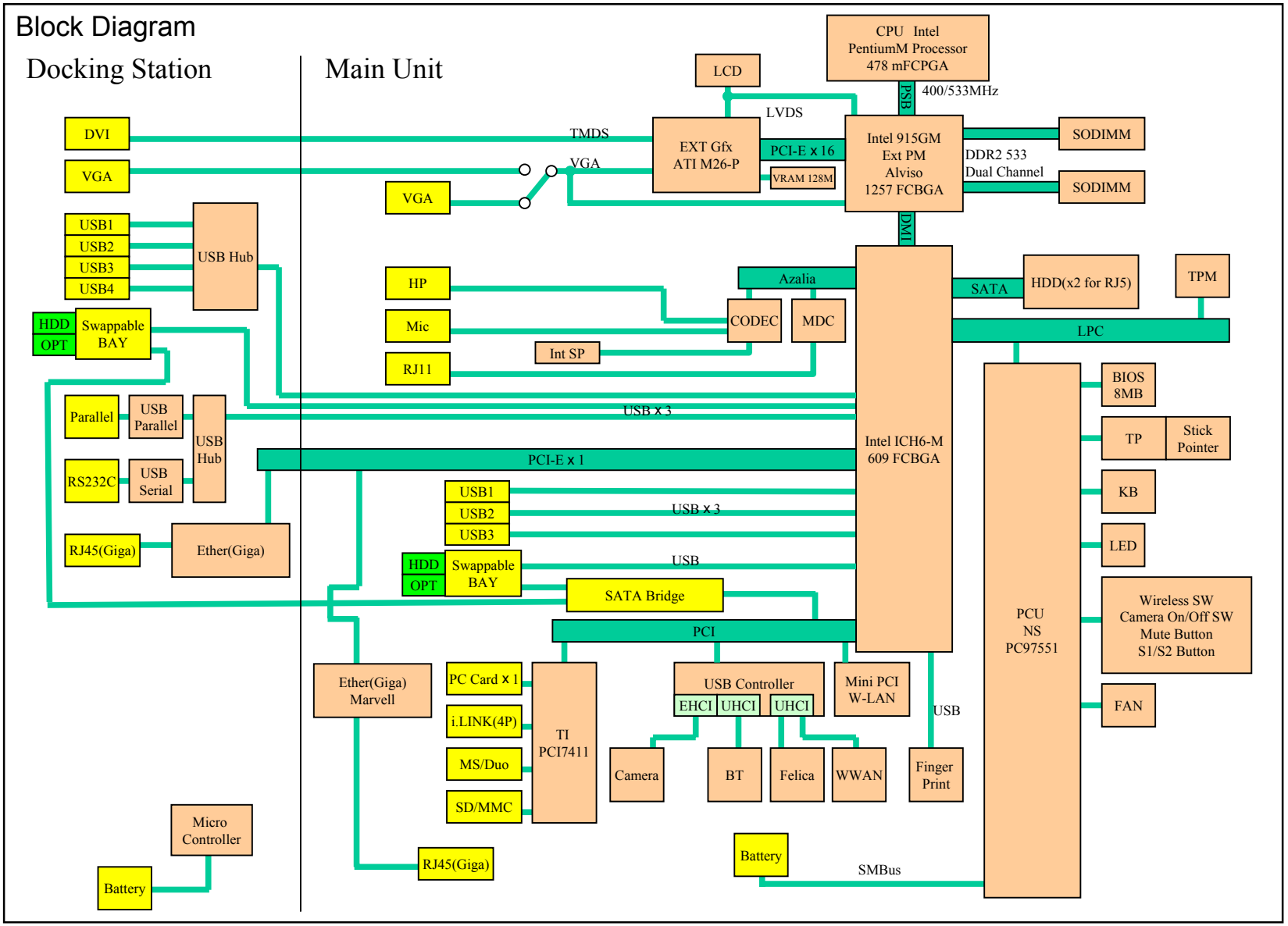
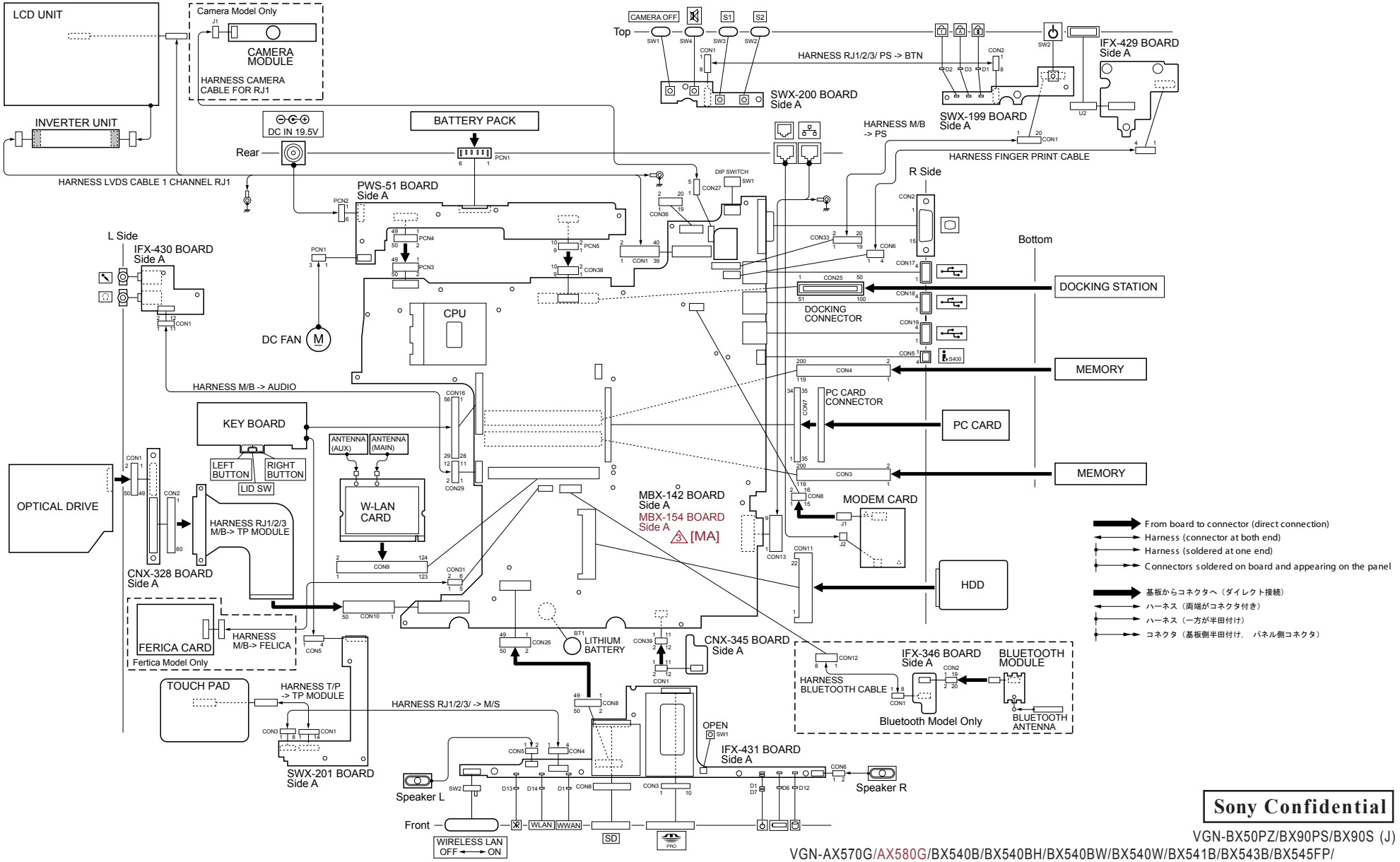
CHAPTER 2.
BLOCK DIAGRAM



CHAPTER 3.
FRAME HARNESS DIAGRAM

1. 14.1-inch/15-inch/15-inch Wide Model ⚠[MA]



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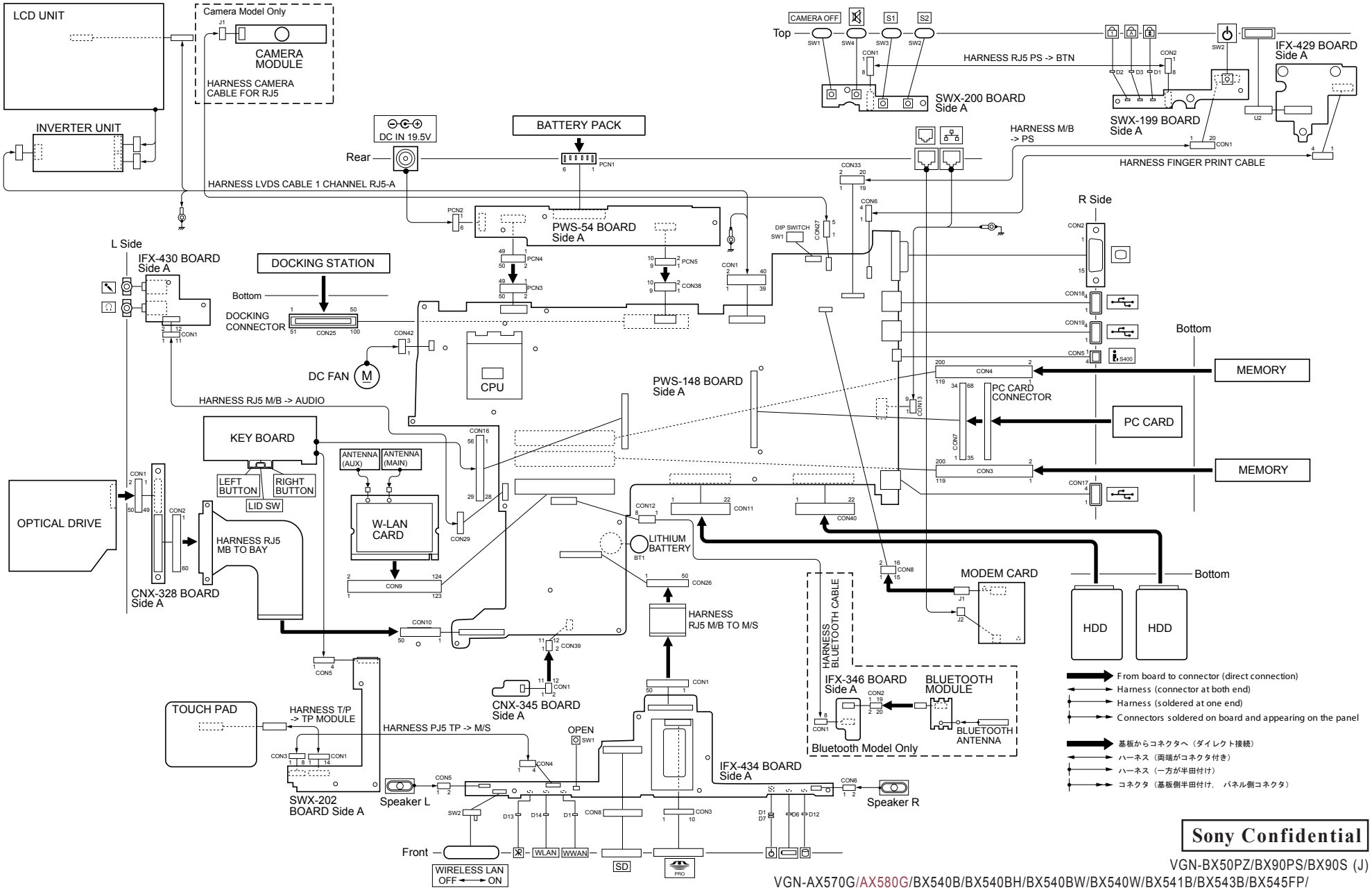
VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

2. 17-inch Model ⚠[MA]



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

CHAPTER 4.
EXPLODED VIEWS AND PARTS LIST

• The parts list is compiled by blocks of a palmrest and bottom etc.The sections of the parts list are different depending on the model.Please refer to list of contents shown in the below.

• 分解図と部品表は，パームレスト，ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので，詳細は右下の一覧表を参照してください。

Section	Page
Palmrest	
P-1 (14-inch Model)	4-2
P-2 (15-inch Model)	4-4
P-3 (15-inch Wide Model)	4-6
P-4 (17-inch Model)	4-8
Main Board	
M-1 (14-inch Model)	4-10
M-2 (15-inch Model)	4-12
M-3 (15-inch Wide Model)	4-14
M-4 (17-inch Model)	4-16
Bottom	
B-1 (14-inch Model)	4-18
B-2 (15-inch Model)	4-20
B-3 (15-inch Wide Model)	4-22
B-4 (17-inch Model)	4-24
LCD	
L-1 (14-inch Model) (TMDT, CPT, QDI)	4-26
L-2 (15-inch Model) (QDI)	4-28
L-3 (15-inch Wide Model) (QDI)	4-30
L-4 (17-inch Model) (AUO, SH)	4-32
Accessories	
A-1	4-34
A-2	4-35
Dip Switch	4-35

NOTE:

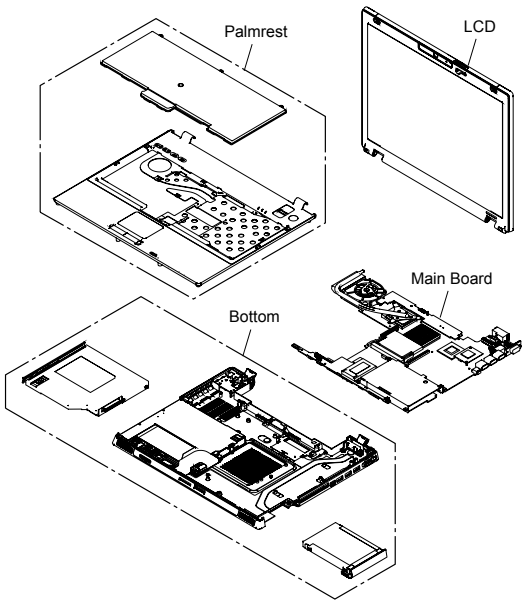
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
  When two or more parts are shown, use the part described first as the main part.
- The parts marked " $ " are the High Value Modules (HVM).
- The parts marked " # " are the parts on which barcode label is attached.For the barcode label, refer to CHAPTER 5.
- The parts marked " & " are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first Whether the desired part is one of the targetted part the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.
- Regarding the boards of this model, the discrete parts on the boards cannot be replaced. However, Some connectorscan be replaced.
- The model that is accompanied by asterisk (*) is the CTO model.

【使用上の注意】

・*印の部品は常備在庫しておりません。
・図面番号のない部品は供給しません。
・併記部品の場合，上部記載部品をメイン部品として使用してください。
・部品名称の前に$印のついた部品は，High Value Module(HVM)です。
・部品名称の前に#印のついた部品は，バーコードラベル貼付部品です。
バーコードラベルについてはCHAPTER 5を参照してください。
・部品名称の前に&印のついた部品は，お客様窓口などでも交換可能なCustomer Replacable Parts (CRP)です。
特に<&>印のついた部品は，使い分けが必要な部品ですので，分解図でCoustomer Replacable Parts対象部品か，対象外部品かを必ず御確認ください。
・本モデルの基板については，基板上の各部品の修理は行うことができません。ただし，一部のコネクタについては，修理可能です。
・機種名に(*)がつくのはCTOモデルです。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。従って交換時は，必ず指定の部品を使用してください。



			Palmrest	Main Board	Bottom	LCD	Accessories
⚠[MA]	J	BX50PZ	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX90PS	P-1	M-1	B-1	L-1	A-1
		BX90PS*	P-1	M-1	B-1	L-1	A-1
		BX90S*	P-1	M-1	B-1	L-1	A-1
⚠[MA]	AM	BX567B	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX565B	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX563B	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX561B	P-3	M-3	B-3	L-3	A-1
		BX543B	P-1	M-1	B-1	L-1	A-1
		BX541B	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX546B	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX575B	P-4	M-4	B-4	L-4	A-1
⚠[MA]		AX570G	P-4	M-4	B-4	L-4	A-1, A-2
⚠[MA]		AX580G	P-4	M-4	B-4	L-4	A-1, A-2
⚠[MA]		BX545FP	P-1	M-1	B-1	L-1	A-1
		BX540B*/BX540BW*	P-1	M-1	B-1	L-1	A-1
		BX540BH*/BX540W*	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX570B*	P-4	M-4	B-4	L-4	A-1
⚠[MA]		BX570BH*	P-4	M-4	B-4	L-4	A-1
⚠[MA]		BX560B*	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX560BH*	P-3	M-3	B-3	L-3	A-1
⚠[MA]	EU	BX197XP	P-4	M-4	B-4	L-4	A-1
⚠[MA]		BX195XP	P-2	M-2	B-2	L-2	A-1
		BX195VP	P-2	M-2	B-2	L-2	A-1
		BX194VP	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX196XP	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX196VP	P-3	M-3	B-3	L-3	A-1
		BX195EP	P-2	M-2	B-2	L-2	A-1
⚠[MA]		BX196SP	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX195SP	P-2	M-2	B-2	L-2	A-1
⚠[MA]	AO	BX168GP	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX165CP	P-3	M-3	B-3	L-3	A-1
⚠[MA]		BX145CP	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX143CP	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX143C	P-1	M-1	B-1	L-1	A-1
⚠[MA]		BX178CP	P-4	M-4	B-4	L-4	A-1

* : CTO model

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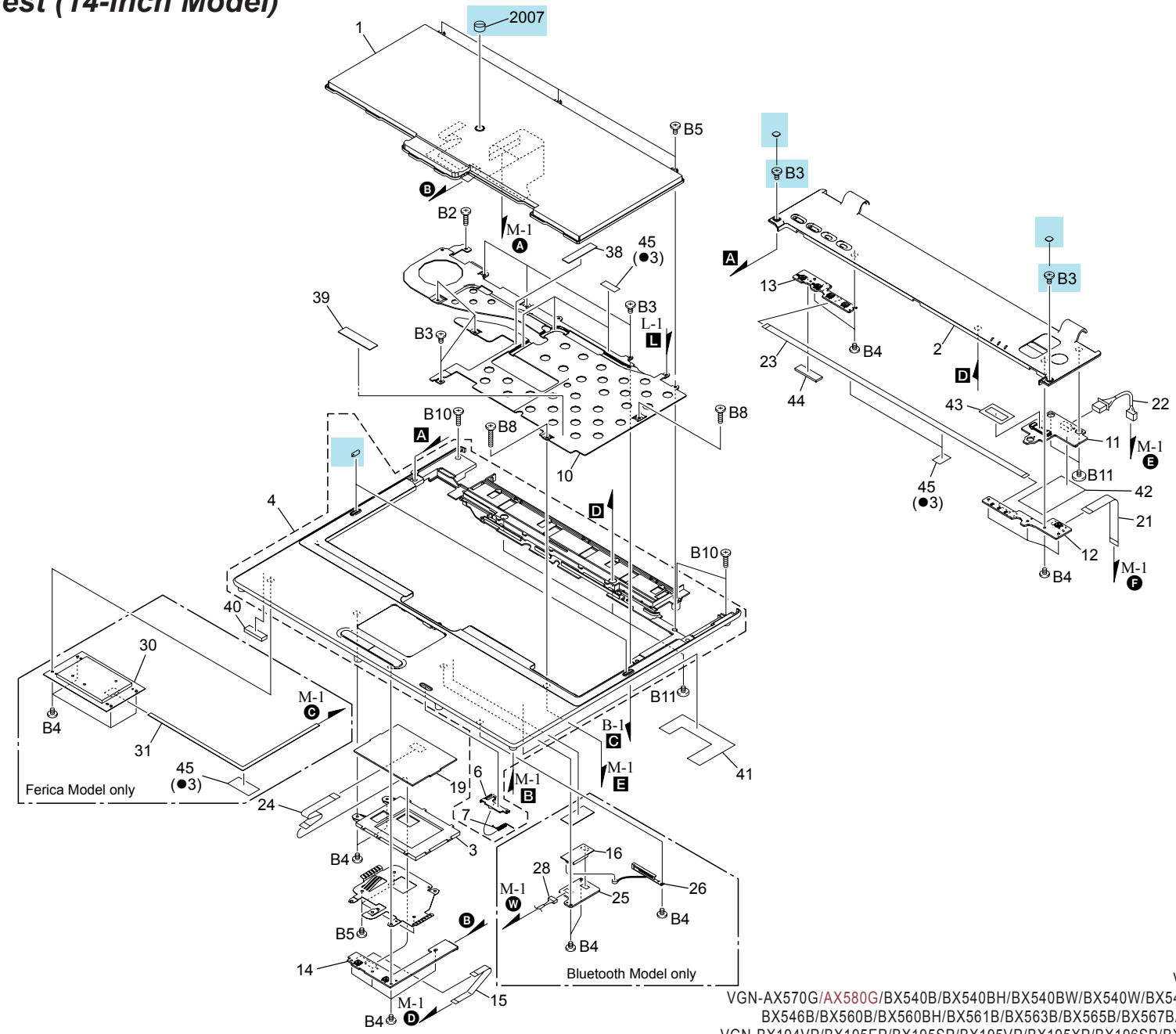
VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

P-1. Palmrest (14-inch Model)



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

P-1. Palmrest (14-inch Model)

Ref.No.	Part No.		Description
3	X-2067-827-1		RJ1 HOLDER TP ASSY
6	2-639-774-01		RJ1 LATCH DETECTOR
7	2-639-777-01		RJ1 SPRING LATCH DECTOR
10	2-639-759-01		RJ1 BRACKET KEYBOARD
11	A-1144-164-A	$	COMPLETE PWB IFX-429
12	A-1144-163-A	$	COMPLETE PWB SWX-199
13	A-1144-166-A	$	COMPLETE PWB SWX-200
14	A-1144-168-A	$	COMPLETE PWB SWX-201
15	1-964-208-11		HARNESS RJ1/2/3 T/P -> M/S
19	1-797-300-11		TOUCH PAD
21	1-964-204-11		HARNESS M/B -> P/S
22	1-964-200-11		HARNESS FINGER PRINT CABLE
23	1-964-205-11		HARNESS RJ1/2 P/S -> BTN
24	1-964-207-11		HARNESS T/P -> T/P MODULE
38	2-668-152-01		INSULATOR KB RJ1
39	2-668-065-01		GASKET KEYBOARD RJ1
40	2-668-073-01		RUBBER PALMREST
41	2-668-157-01		CUSHION HDD RJ1
42	2-668-116-01		INSULATOR FPB RJ1
43	2-668-156-01		INSULATOR FP RJ1
44	2-668-025-01		SPONGE BUTTON BOARD RJ1
45	————		KAPTON TAPE (●3)
B2	A-1168-312-A		CHINA SCREW (M2X8) GP
B3	4-672-836-11	<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B10	4-671-538-11		SCREW(M2X4), SPECIAL HEAD
B11	A-1168-308-A		CHINA SCREW (M2X2) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	J				AM						EU	AO		
					BX50PZ	BX90PS	BX90PS*	BS90S*	BX543B	BX541B	BX546B	BX545FP	BX540B*/BX540BV*	BX540BH*/BX540V*	BX194VP	BX145CP	BX143CP	BX143C
	1	1-479-398-21	#	(German)...KEYBOARD UNIT(DE)											●			
		1-479-398-41	#	(French)...KEYBOARD UNIT(FR)											●			
		1-479-398-11	#	(English)...KEYBOARD UNIT(GB)											●			
		1-479-398-51	#	(Italian)...KEYBOARD UNIT(IT)											●			
		1-479-397-11	#	KEYBOARD UNIT(JP)	●	●	●	●										
		1-479-397-21	#	KEYBOARD UNIT(US)					●	●	●		●	●		●	●	●
⚠[MA]		1-479-398-81	#	KEYBOARD UNIT(LA)								●						
	2	X-2067-831-1		RJ1 HOOD ASSY		●	●	●	●	●			●	●				
		X-2067-828-1		RJ1 HOOD CA ASSY	●		●	●			●	●	●	●	●	●	●	●
	4	X-2108-083-1		RJ1 HOUSING PALMREST			●	●	●	●	●	●	●	●	●	●	●	●
		X-2108-082-1		RJ1 HOUSING PALMREST F ASSY	●	●	●	●										
	16	1-479-129-12		BLUETOOTH MODULE	●	●	●	●			●		●	●	●	●	●	●
	25	A-1144-175-A	$	COMPLETE PWB CNX-346	●	●	●	●			●		●	●	●	●	●	●
	26	A-1144-051-A		BLUETOOTH ANTENNA	●	●	●	●			●		●	●	●	●	●	●
	28	1-964-196-11		HARNESS BLUTTOOTH CABLE	●	●	●	●			●		●	●	●	●	●	●
	30	A-1172-978-A	$	RW MODULE ASSY(S)	●	●	●	●										
	31	1-964-212-11		HARNESS M/B -> FELICA	●	●	●	●										
						⚠[MA]	⚠[MA]				⚠[MA]	⚠[MA]				⚠[MA]	⚠[MA]	⚠[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

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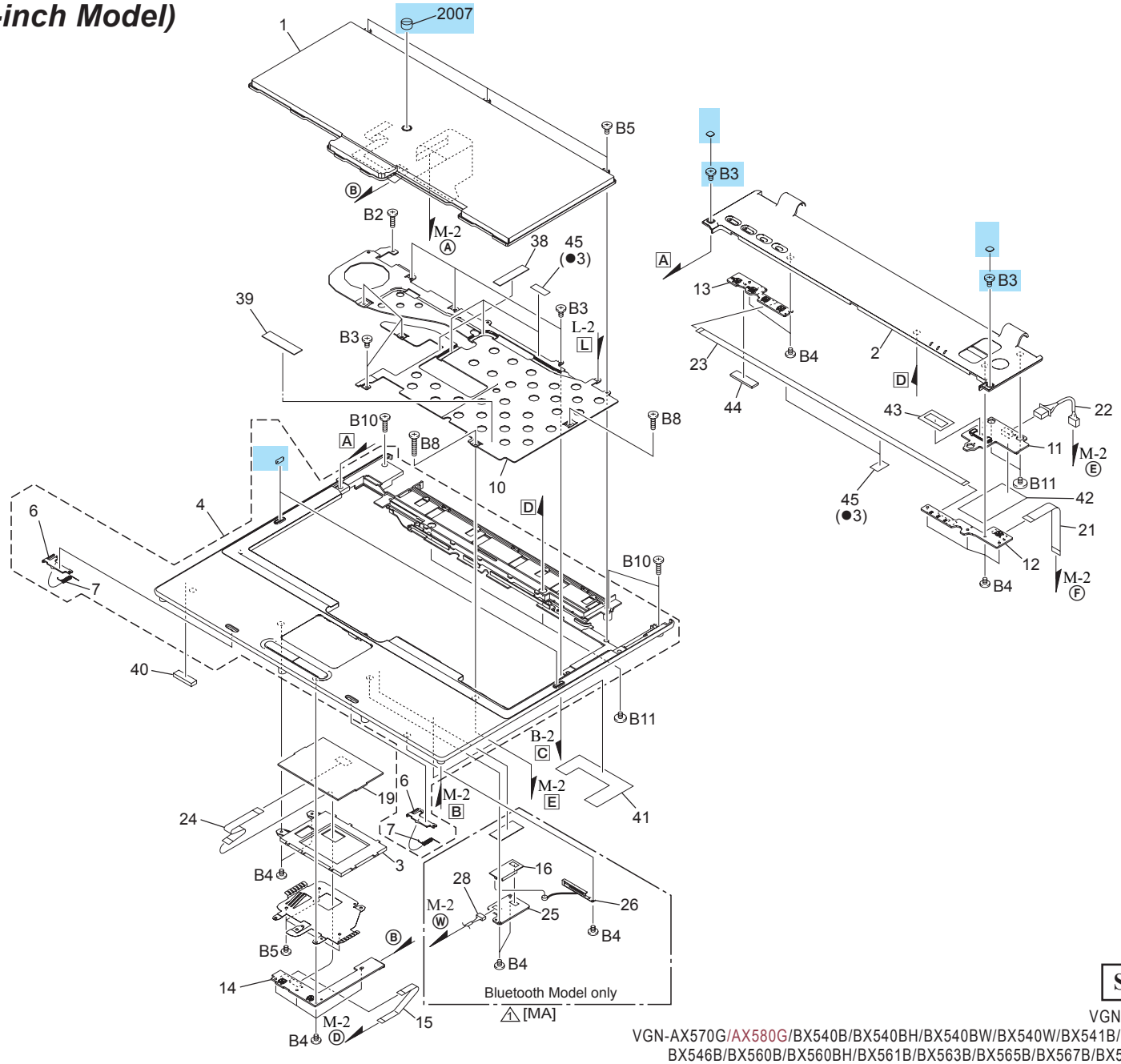
P-2. Palmrest (15-inch Model)



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P-2. Palmrest (15-inch Model)

Ref.No.	Part No.		Description
3	X-2067-827-1		RJ1 HOLDER TP ASSY
4	X-2108-084-1		RJ2 HOUSING PALMREST ASSY
6	2-639-774-01		RJ1 LATCH DETECTOR
7	2-639-777-01		RJ1 SPRING LATCH DECTOR
10	2-639-759-01		RJ1 BRACKET KEYBOARD
11	A-1144-164-A	$	COMPLETE PWB IFX-429
12	A-1144-163-A	$	COMPLETE PWB SWX-199
13	A-1144-166-A	$	COMPLETE PWB SWX-200
14	A-1144-168-A	$	COMPLETE PWB SWX-201
15	1-964-208-11		HARNESS RJ1/2/3 T/P -> M/S
19	1-797-300-11		TOUCH PAD
21	1-964-204-11		HARNESS M/B -> P/S
22	1-964-200-11		HARNESS FINGER PRINT CABLE
23	1-964-205-11		HARNESS RJ1/2/3 P/S -> BTN
24	1-964-207-11		HARNESS T/P -> T/P MODULE
38	2-668-152-01		INSULATOR KB RJ1
39	2-668-065-01		GASKET KEYBOARD RJ1
40	2-668-073-01		RUBBER PALMREST
41	2-668-157-01		CUSHION HDD RJ1
42	2-668-116-01		INSULATOR FPB RJ1
43	2-668-156-01		INSULATOR FP RJ1
44	2-668-025-01		SPONGE BUTTON BOARD RJ1
45	————		KAPTON TAPE (●3)
B2	A-1168-312-A		CHINA SCREW (M2X8) GP
B3	4-672-836-11	<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B10	4-671-538-11		SCREW(M2X4), SPECIAL HEAD
B11	A-1168-308-A		CHINA SCREW (M2X2) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	EU BX195XP	EU BX195VP	EU BX195EP	EU BX195SP
	1	1-479-397-41	#	(English)...KEYBOARD UNIT(BE)	●	●		●
		1-479-398-11	#	(English)...KEYBOARD UNIT(GB)	●	●	●	●
		1-479-398-21	#	(German)...KEYBOARD UNIT(DE)	●	●	●	●
		1-479-398-41	#	(French)...KEYBOARD UNIT(FR)	●	●		●
		1-479-398-51	#	(Italian)...KEYBOARD UNIT(IT)	●	●	●	●
		1-479-398-61	#	(Spanish)...KEYBOARD UNIT(ES)	●	●		●
		1-479-398-71	#	(English)...KEYBOARD UNIT(SE)		●		
		1-479-398-91	#	(English)...KEYBOARD UNIT(PT)		●		
⚠[MA]		1-479-398-31	#	(English,German,French,Italian)...KEYBOARD UNIT(CH)	●			●
	2	X-2102-301-1		RJ2 HOOD ASSY		●	●	
⚠[MA]		X-2067-999-1		RJ2 HOOD CA ASSY	●			●
⚠[MA]	16	1-479-129-12		BLUETOOTH MODULE	●			●
⚠[MA]	25	A-1144-175-A	$	COMPLETE PWB CNX-346	●			●
⚠[MA]	26	A-1144-051-A		BLUETOOTH ANTENNA	●			●
⚠[MA]	28	1-964-196-11		HARNESS BLUTTOOTH CABLE	●			●
					⚠[MA]			⚠[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

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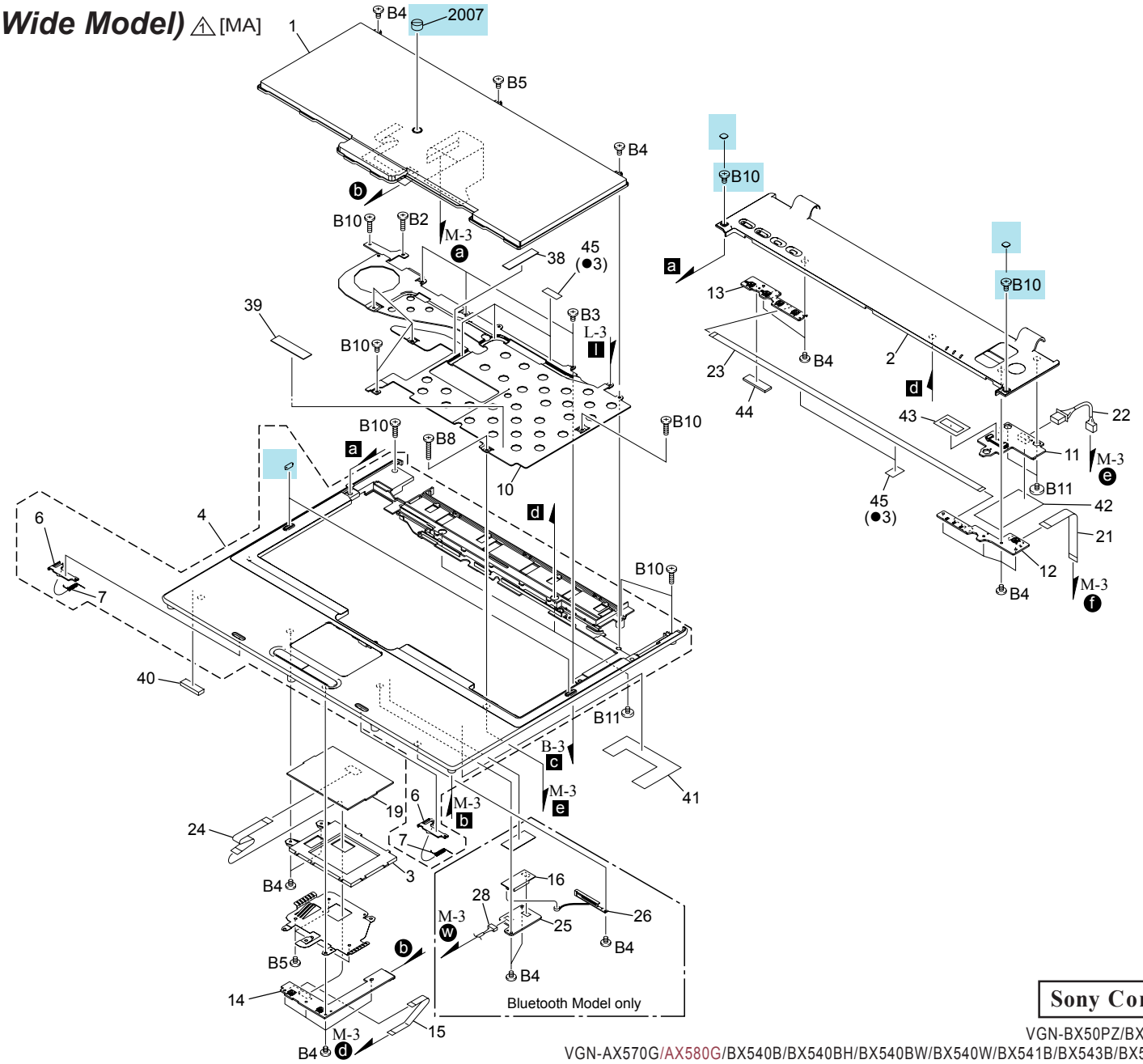
P-3. Palmrest (15-inch Wide Model) ⚠[MA]



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

P-3. Palmrest (15-inch Wide Model) ⚠[MA]

Ref.No.	Part No.		Description
3	X-2067-827-1		RJ1 HOLDER TP ASSY
4	X-2067-927-1		RJ3 HOUSING PALMREST ASSY
6	2-639-774-01		RJ1 LATCH DETECTOR
7	2-639-777-01		RJ1 SPRING LATCH DECTOR
10	2-651-356-01		RJ3 BRACKET KEYBOARD
11	A-1144-164-A	$	COMPLETE PWB IFX-429
12	A-1144-163-A	$	COMPLETE PWB SWX-199
13	A-1144-166-A	$	COMPLETE PWB SWX-200
14	A-1144-168-A	$	COMPLETE PWB SWX-201
15	1-964-208-11		HARNESS RJ1/2/3 T/P -> M/S
19	1-797-300-11		TOUCH PAD
21	1-964-204-11		HARNESS M/B -> P/S
22	1-964-200-11		HARNESS FINGER PRINT CABLE
23	1-964-439-11		HARNESS RJ3 P/S -> BTN
24	1-964-207-11		HARNESS T/P -> T/P MODULE
38	2-668-152-01		INSULATOR KB RJ1
39	2-668-065-01		GASKET KEYBOARD RJ1
40	2-668-073-01		RUBBER PALMREST
41	2-668-157-01		CUSHION HDD RJ1
42	2-668-116-01		INSULATOR FPB RJ1
43	2-668-156-01		INSULATOR FP RJ1
44	2-668-025-01		SPONGE BUTTON BOARD RJ1
45	————		KAPTON TAPE (●3)
B2	A-1168-312-A		CHINA SCREW (M2X8) GP
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B10	4-671-538-11	&	SCREW(M2X4), SPECIAL HEAD
B11	A-1168-308-A		CHINA SCREW (M2X2) GP

(●3) Use the KAPTON TAPE

				AM						EU			AO	
Ref. No.	Part No.		Description	BX567B	BX565B	BX563B	BX561B	BX560B*	BX560BH*	BX196XP	BX196VP	BX196SP	BX168SP	BX165CP
1	1-479-397-21	#	KEYBOARD UNIT(US)	●	●	●	●	●	●				●	●
	1-479-397-41	#	(English)...KEYBOARD UNIT(BE)								●			
	1-479-398-11	#	(English)...KEYBOARD UNIT(GB)							●	●	●		
	1-479-398-21	#	(German)...KEYBOARD UNIT(DE)								●	●		
	1-479-398-31	#	(English,German,French,Italian)...KEYBOARDUNIT(CH)								●	●		
	1-479-398-41	#	(French)...KEYBOARD UNIT(FR)								●	●		
	1-479-398-51	#	(Italian)...KEYBOARD UNIT(IT)								●	●		
	1-479-398-91	#	(English)...KEYBOARD UNIT(PT)									●		
2	X-2102-303-1		RJ3 HOOD CA ASSY					●	●	●		●	●	●
	X-2102-305-1		RJ3 HOOD ASSY	●	●	●	●	●	●		●			
16	1-479-129-12		BLUETOOTH MODULE		●			●	●	●		●	●	●
25	A-1144-175-A	$	COMPLETE PWB CNX-346		●			●	●	●		●	●	●
26	A-1144-051-A		BLUETOOTH ANTENNA		●			●	●	●		●	●	●
28	1-964-442-11		HARNESS BLUETOOTH FOR RJ3		●			●	●	●		●	●	●
										⚠[MA]			⚠[MA]	

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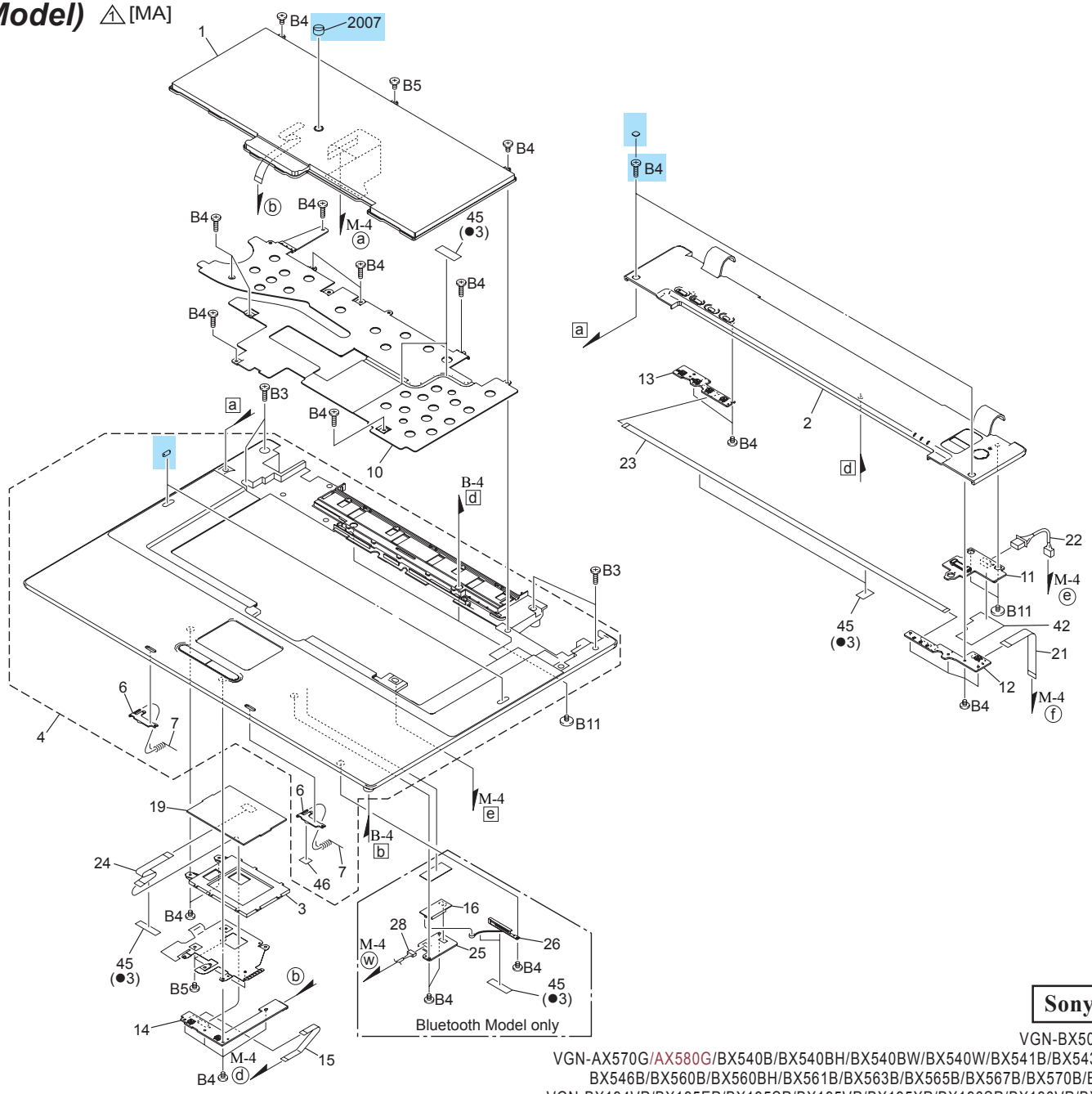
P-4. Palmrest (17-inch Model) ⚠[MA]



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

P-4. Palmrest (17-inch Model) ⚠[MA]

Ref.No.	Part No.		Description
2	X-2102-307-1		RJ5 HOOD CA ASSY
3	X-2067-827-1		RJ1 HOLDER TP ASSY
6	2-639-774-01		RJ1 LATCH DETECTOR
7	2-639-777-01		RJ1 SPRING LATCH DECTOR
10	2-651-390-01		RJ5 BRACKET KEYBOARD
11	A-1144-164-A	$	COMPLETE PWB IFX-429
12	A-1144-163-A	$	COMPLETE PWB SWX-199
13	A-1144-166-A	$	COMPLETE PWB SWX-200
14	A-1144-178-A	$	COMPLETE PWB SWX-212
15	1-964-217-11		HARNESS RJ5 T/P -> M/S
16	1-479-129-12		BLUETOOTH MODULE
19	1-797-300-11		TOUCH PAD
21	1-964-204-11		HARNESS M/B -> P/S
22	1-964-200-11		HARNESS FINGER PRINT CABLE
23	1-964-215-11		HARNESS RJ5 P/S -> BTN
24	1-964-207-11		HARNESS T/P -> T/P MODULE
25	A-1144-175-A	$	COMPLETE PWB CNX-346
26	A-1144-051-A		BLUETOOTH ANTENNA
28	1-964-445-11		HARNESS BLUETOOTH FOR RJ5
42	2-668-116-01		INSULATOR FPB RJ1
45	————		KAPTON TAPE (●3)
46	2-671-052-01		MYLAR LATCH RJ5
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01	<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B11	A-1168-308-A		CHINA SCREW (M2X2) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	AM BX575B	AM AX570G	AM AX580G	AM BX570B*	AM BX670BH*	EU BX197XP	AO BX178CP
	1	1-479-397-21	#	KEYBOARD UNIT(US)	●	●	●	●	●		●
		1-479-397-41	#	(English)...KEYBOARD UNIT(BE)						●	
		1-479-398-11	#	(English)...KEYBOARD UNIT(GB)						●	
		1-479-398-21	#	(German)...KEYBOARD UNIT(DE)						●	
		1-479-398-31	#	(English,German,French,Italian)...KEYBOARDUNIT(CH)						●	
		1-479-398-41	#	(French)...KEYBOARD UNIT(FR)						●	
		1-479-398-51	#	(Italian)...KEYBOARD UNIT(IT)						●	
		1-479-398-61	#	(Spanish)...KEYBOARD UNIT(ES)						●	
		1-479-398-71	#	(English)...KEYBOARD UNIT(SE)						●	
		1-479-398-91	#	(English)...KEYBOARD UNIT(PT)						●	
	4	X-2067-939-1		RJ5 HOUSING PALMREST ASSY	●	●		●	●	●	●
⚠[MA]		X-2108-738-1		RJ5 HOUSING PALMREST GM ASSY			●				
							⚠[MA]				⚠[MA]

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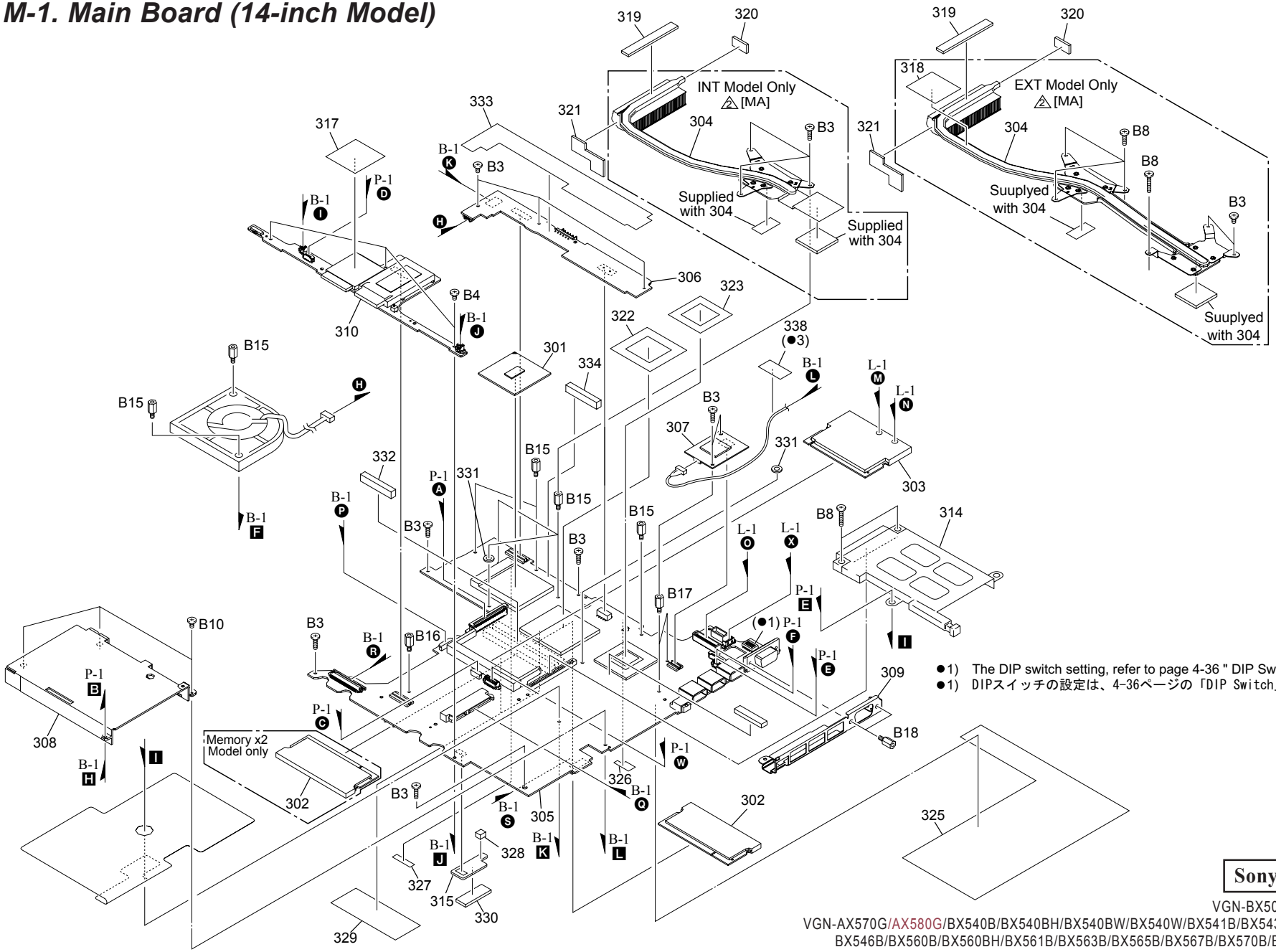
M-1. Main Board (14-inch Model)



●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

M-1. Main Board (14-inch Model)

Ref.No.	Part No.		Description
306	A-1144-179-A	$ #	COMPLETE PWB PWS-51
307	1-417-539-12	#	MODEM CARD
308	2-639-754-01		RJ1 GUIDE HDD
* 309	2-639-750-01		RJ1 BRACKET IO
310	A-1144-167-A	$	COMPLETE PWB IFX-431
314	1-820-054-11		CONNECTOR, PC CARD
315	A-1144-174-A	$	COMPLETE PWB CNX-345
317	2-668-158-01		CUSHION SD
319	2-667-919-01		COOLING UL SPONGE 3 RJ1
320	2-667-917-01		COOLING UL SPONGE 1 RJ1
321	2-667-918-01		COOLING UL SPONGE 2 RJ1
322	2-668-067-01		KAPTON NB RJ1
323	2-668-066-01		KAPTON VGA RJ1
325	2-668-172-01		GRAPHITE SHEET RJ1
326	2-667-912-01		INSULATOR HOOK R RJ1
327	2-667-913-01		INSULATOR HOOK L RJ1
328	2-668-151-01		CUSHION TPM RJ1
329	2-667-914-01		KAPTON RAM RJ1
330	2-668-120-01		CUSHION TPM B RJ1
331	2-668-177-01		SPACER HOUSING B. RJ1
332	2-667-915-01		SPONGE WIRELESS 1 RJ1
333	2-668-117-01		KAPTON CHARGER BOARD RJ1
334	2-667-921-01		SPACER CHARGER BOARD RJ1
338	————		KAPTON TAPE (●3)
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B10	4-671-538-11		SCREW(M2X4), SPECIAL HEAD
B15	A-1168-309-A		STAND OFF GP
B16	4-651-989-01		SPACER (MBX)
B17	4-651-989-41		SPACER (MBX)
B18	4-635-966-21		SCREW (HEX)

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	J				AM						EU	AO		
					BX50PZ	BX90PS	BX90PS*	BS90S*	BX543B	BX541B	BX546B	BX545FP	BX540B*/BX540BV*	BX540BH*/BX540V*	BX194VP	BX145CP	BX143CP	BX143C
	301	6-708-558-01		IC RH80536NC0211MSL8MM	●		●	●					●	●				
		6-707-258-01		IC RH80536GE0302MSL7SA		●	●	●	●	●	●	●	●	●	●		●	●
		6-707-259-01		IC RH80536GE0362MSL7S9									●	●		●		
		6-707-260-01		IC RH80536GE0412MSL7SM			●	●					●	●				
		6-707-261-01		IC RH80536GE0462MSL7SL									●	●				
		6-708-173-01		IC RH80536GE0512MSL7VB			●	●					●	●				
	302	6-708-613-01	#	IC HYMP532S64P6-C4		●	●	●				●					●	●
		6-707-351-01	#	IC HYMP564S64P6-C4			●	●	●	●	●		●	●	●	●		
		6-708-155-01	#	IC HYS64T64020HDL-3.7-A	●		●	●	●	●			●	●	●			
		6-708-619-01	#	IC EBE52UD6AFSA-5C-E			●	●	●	●			●	●	●			
		6-708-860-01	#	IC IC HYMP532S64P6-C4-A			●	●					●	●				
		6-708-154-01	#	IC HYS64T128021HDL-3.7-A									●	●				
	303	1-761-864-51	#	WIRELESS LAN CARD					●	●	●	●	●	●				
		1-761-864-64	#	WIRELESS LAN CARD	●	●	●	●										
		1-761-864-71	#	WIRELESS LAN CARD											●	●	●	●
	304	A-1146-180-A		RJ1 HEAT SINK UNIT INT	●		●	●	●	●		●	●	●	●	●	●	●
⚠[MA]		A-1146-179-A		RJ1 HEAT SINK UNIT EXT		●	●	●			●		●	●				
	305	A-1144-161-A	$ #	COMPLETE PWB MBX-142 INT			●	●	●	●	●	●	●	●	●	●	●	●
⚠[MA]		A-1144-162-A	$ #	COMPLETE PWB MBX-142 EXT	●													
⚠[MA]		A-1173-868-A	$ #	COMPLETE PWB MBX-154 EXT		●	●	●					●	●				
⚠[MA]	318	2-668-064-01		AL SHEET BRACKET BAY RJ1		●	●	●			●		●	●		●	●	●

⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA] ⚠[MA]

⚠[MA] ⚠[MA]

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●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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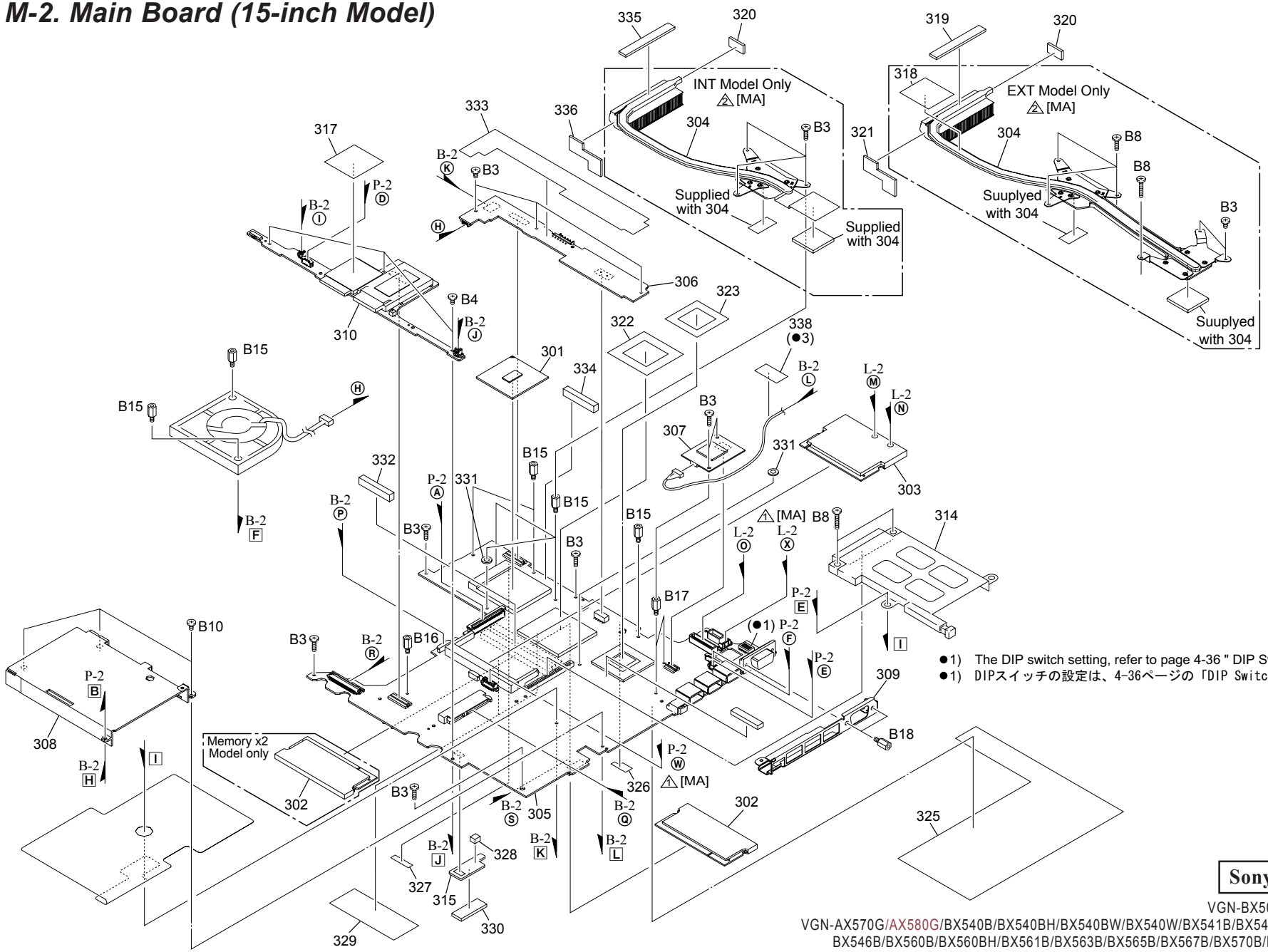
M-2. Main Board (15-inch Model)



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●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

M-2. Main Board (15-inch Model)

Ref.No.	Part No.		Description
303	1-761-864-71	#	WIRELESS LAN CARD
306	A-1144-179-A	$ #	COMPLETE PWB PWS-51
307	1-417-539-12	#	MODEM CARD
308	2-639-754-01		RJ1 GUIDE HDD
* 309	2-639-750-01		RJ1 BRACKET IO
310	A-1144-167-A	$	COMPLETE PWB IFX-431
314	1-820-054-11		CONNECTOR, PC CARD
315	A-1144-174-A	$	COMPLETE PWB CNX-345
317	2-668-158-01		CUSHION SD
320	2-667-917-01		COOLING UL SPONGE 1 RJ1
322	2-668-067-01		KAPTON NB RJ1
323	2-668-066-01		KAPTON VGA RJ1
325	2-668-172-01		GRAPHITE SHEET RJ1
326	2-667-912-01		INSULATOR HOOK R RJ1
327	2-667-913-01		INSULATOR HOOK L RJ1
328	2-668-151-01		CUSHION TPM RJ1
329	2-667-914-01		KAPTON RAM RJ1
330	2-668-120-01		CUSHION TPM B RJ1
331	2-668-177-01		SPACER HOUSING B RJ1
332	2-667-915-01		SPONGE WIRELESS 1 RJ1
333	2-668-117-01		KAPTON CHARGER BOARD RJ1
334	2-667-921-01		SPACER CHARGER BOARD RJ1
335	2-668-068-01		COOLING UL SPONGE 1 RJ2
336	2-668-072-01		COOLING UL SPONGE 2 RJ2
338	————		KAPTON TAPE (●3)
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B10	4-671-538-11		SCREW(M2X4), SPECIAL HEAD
B15	A-1168-309-A		STAND OFF GP
B16	4-651-989-01		SPACER (MBX)
B17	4-651-989-41		SPACER (MBX)
B18	4-635-966-21		SCREW (HEX)

(●3) Use the KAPTON TAPE

					EU			
					BX195XP	BX195VP	BX195EP	BX195SP
	Ref. No.	Part No.		Description				
	301	6-707-258-01		IC RH80536GE0302MSL7SA		●		
		6-708-172-01		IC RH80536NC0251MSL8MN			●	
⚠[MA]		6-707-259-01		IC RH80536GE0362MSL7S9	●			●
	302	6-708-613-01	#	IC HYMP532S64P6-C4			●	
		6-707-351-01	#	IC HYMP564S64P6-C4	●	●		●
		6-708-155-01	#	IC HYS64T64020HDL-3.7-A		●		●
		6-708-619-01	#	IC EBE52UD6AFSA-5C-E		●		●
	304	A-1146-180-A		RJ1 HEAT SINK UNIT INT		●	●	●
⚠[MA]		A-1146-179-A		RJ1 HEAT SINK UNIT EXT	●			
	305	A-1144-161-A	$ #	COMPLETE PWB MBX-142 INT		●	●	●
⚠[MA]		A-1144-162-A	$ #	COMPLETE PWB MBX-142 EXT	●			
⚠[MA]	318	2-668-064-01		AL SHEET BRACKET BAY RJ1	●			
					⚠[MA]			⚠[MA]

• This parts list contains two different types of parts.
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The other type is the parts that are different depending on each model.
• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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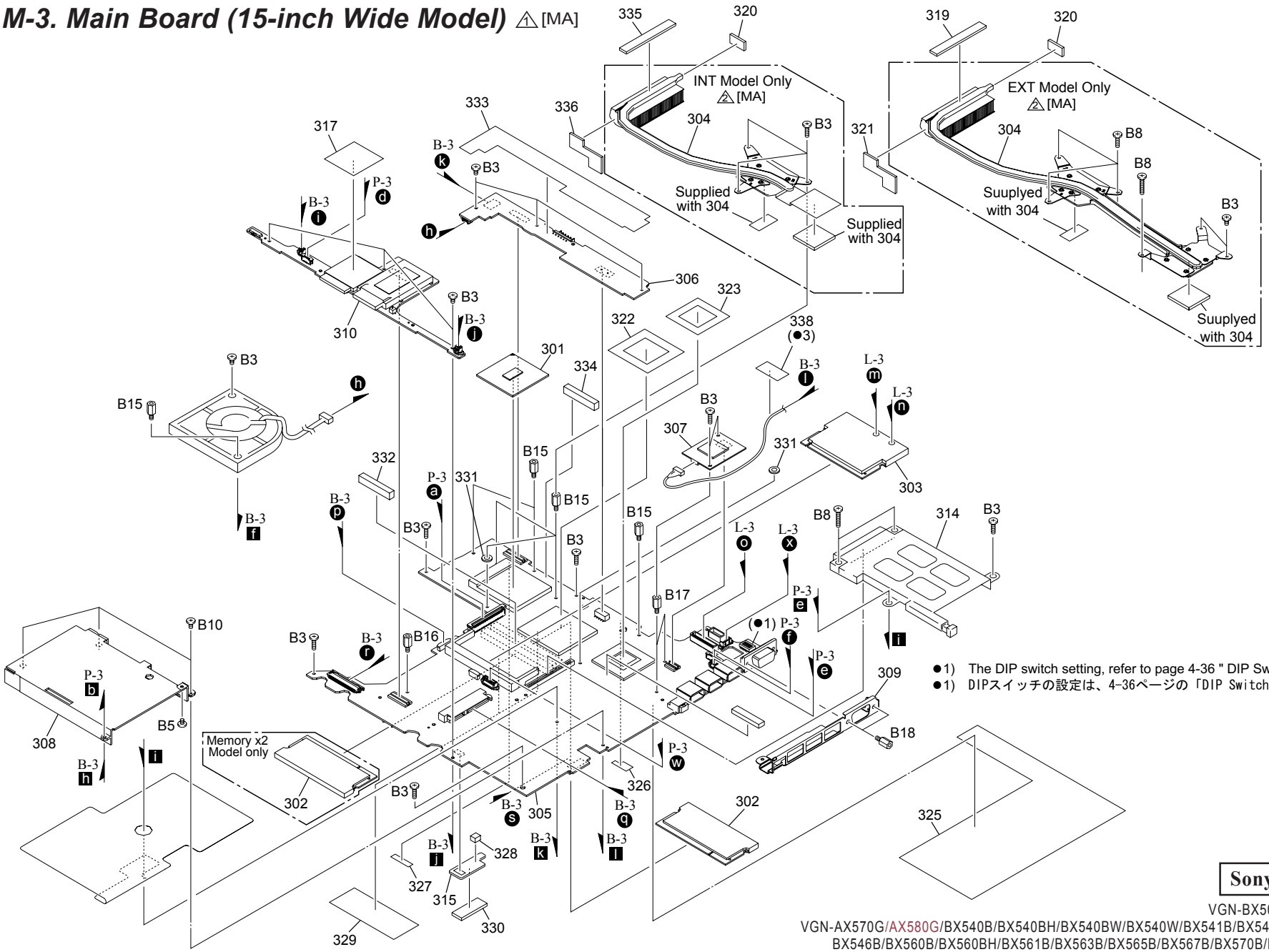
M-3. Main Board (15-inch Wide Model) ⚠[MA]



●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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M-3. Main Board (15-inch Wide Model) ⚠ [MA]

Ref.No.	Part No.		Description
306	A-1144-179-A	$ #	COMPLETE PWB PWS-51
307	1-417-539-12	#	MODEM CARD
308	2-667-845-01		RJ3 GUIDE HDD
* 309	2-639-750-01		RJ1 BRACKET IO
310	A-1144-167-A	$	COMPLETE PWB IFX-431
314	1-820-054-11		CONNECTOR, PC CARD
315	A-1144-174-A	$	COMPLETE PWB CNX-345
317	2-668-158-01		CUSHION SD
320	2-667-917-01		COOLING UL SPONGE 1 RJ1
322	2-668-067-01		KAPTON NB RJ1
323	2-668-066-01		KAPTON VGA RJ1
325	2-668-172-01		GRAPHITE SHEET RJ1
326	2-667-912-01		INSULATOR HOOK R RJ1
327	2-667-913-01		INSULATOR HOOK L RJ1
328	2-668-151-01		CUSHION TPM RJ1
329	2-667-914-01		KAPTON RAM RJ1
330	2-668-120-01		CUSHION TPM B RJ1
331	2-668-177-01		SPACER HOUSING B RJ1
332	2-667-915-01		SPONGE WIRELESS 1 RJ1
333	2-668-117-01		KAPTON CHARGER BOARD RJ1
334	2-667-921-01		SPACER CHARGER BOARD RJ1
335	2-668-068-01		COOLING UL SPONGE 1 RJ2
336	2-668-072-01		COOLING UL SPONGE 2 RJ2
338	———		KAPTON TAPE (●3)
B5	2-022-855-01		SCREW M2 EG
B10	4-671-538-11		SCREW(M2X4), SPECIAL HEAD
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B15	A-1168-309-A		STAND OFF GP
B16	4-651-989-01		SPACER (MBX)
B17	4-651-989-41		SPACER (MBX)
B18	4-635-966-21		SCREW (HEX)

(●3) Use the KAPTON TAPE

Ref. No.	Part No.		Description	AM BX567B	AM BX565B	AM BX563B	AM BX561B	AM BX560B*	AM BX560BH*	EU BX196XP	EU BX196VP	EU BX196SP	AO BX168SP	AO BX165CP
301	6-707-260-01		IC RH80536GE0412MSL7SM					●	●				●	
	6-707-258-01		IC RH80536GE0302MSL7SA			●	●	●	●		●			
	6-707-259-01		IC RH80536GE0362MSL7S9	●	●			●	●	●		●		●
	6-707-261-01		IC RH80536GE0462MSL7SL					●	●					
	6-707-268-01		IC RH80536NC0211MSL86J					●	●					
	6-708-173-01		IC RH80536GE0512MSL7VB					●	●					
	6-708-558-01		IC RH80536NC0211MSL8MM					●	●					
302	6-707-351-01	#	IC HYMP564S64P6-C4	●	●	●	●	●	●	●	●	●	●	●
	6-708-154-01	#	IC HYS64T128021HDL-3.7-A					●	●					
	6-708-860-01	#	IC IC HYMP532S64P6-C4-A					●	●					
303	1-761-864-71	#	WIRELESS LAN CARD							●	●	●	●	●
	1-761-864-51	#	WIRELESS LAN CARD	●	●	●	●	●	●					
304	A-1146-180-A		RJ1 HEAT SINK UNIT INT	●	●	●	●	●	●		●	●	●	●
	A-1146-179-A		RJ1 HEAT SINK UNIT EXT					●	●	●				
305	A-1144-161-A	$ #	COMPLETE PWB MBX-142 INT	●	●	●	●	●	●		●	●	●	●
	A-1144-162-A	$ #	COMPLETE PWB MBX-142 EXT					●	●	●				

⚠ [MA] [MA] [MA]

- This parts list contains two different types of parts.
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- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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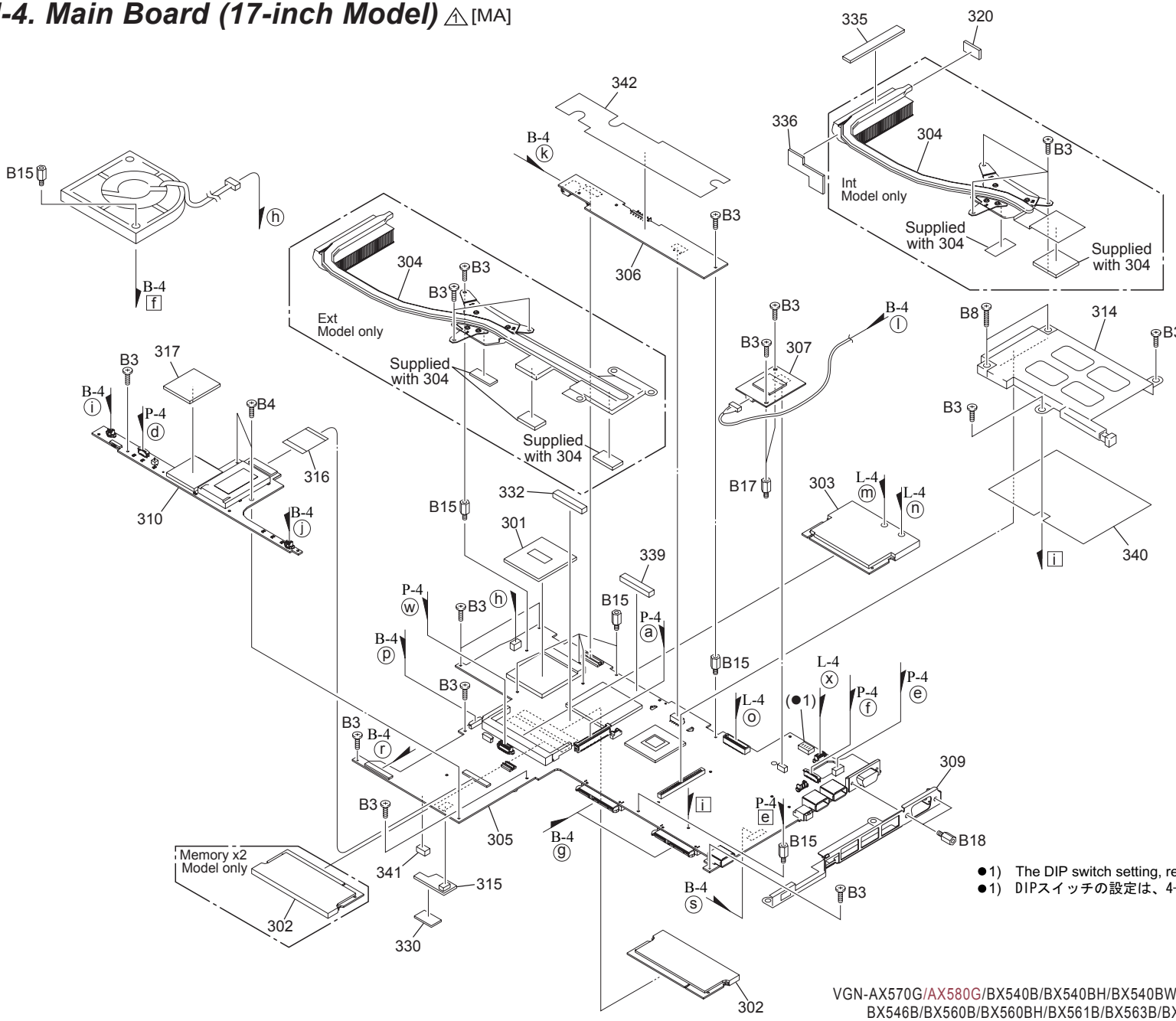
M-4. Main Board (17-inch Model) ⚠[MA]



●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

M-4. Main Board (17-inch Model) ⚠[MA]

Ref.No.	Part No.			Description
	306	A-1144-180-A	$	COMPLETE PWB PWS-54
	307	1-417-539-12	#	MODEM CARD
*	309	2-651-373-01		RJ5 BRACKET IO
	310	A-1144-177-A	$	COMPLETE PWB IFX-434
	314	1-820-054-11		CONNECTOR, PC CARD
	315	A-1144-174-A	$	COMPLETE PWB CNX-345
	316	1-964-223-11		HARNESS RJ5 M/B TO M/S
	317	2-668-158-01		CUSHION SD
	320	2-667-917-01		COOLING UL SPONGE 1 RJ1
	330	2-668-120-01		CUSHION TPM B RJ1
	335	2-668-068-01		COOLING UL SPONGE 1 RJ2
	336	2-668-072-01		COOLING UL SPONGE 2 RJ2
	339	2-671-055-01		SPONG CHARGER BOARD RJ5
	340	2-671-054-01		MYLAR PCMCIA RJ5
	341	2-671-056-01		CUSHION TPM
	342	2-671-053-01		KAPTON CHARGER BOARD
	B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
	B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
	B8	A-1168-310-A		CHINA SCREW (M2X12) GP
	B15	A-1168-309-A		STAND OFF GP
	B17	4-651-989-41		SPACER (MBX)
	B18	4-635-966-21		SCREW (HEX)

	Ref. No.	Part No.			Description	AM BX575B	AM AX570G	AM AX580G	AM BX570B*	AM BX670BH*	EU BX197XP	AO BX178CP
	301	6-707-259-01			IC RH80536GE0362MSL7S9	●	●	●	●			
	301	6-707-259-01			IC RH80536GE0362MSL7S9	●	●		●	●		
		6-707-260-01			IC RH80536GE0412MSL7SM			●	●	●	●	●
		6-707-258-01			IC RH80536GE0302MSL7SA				●	●		
		6-707-261-01			IC RH80536GE0462MSL7SL				●	●		
		6-707-268-01			IC RH80536NC0211MSL86J				●	●		
		6-708-173-01			IC RH80536GE0512MSL7VB				●	●		
		6-708-558-01			IC RH80536NC0211MSL8MM				●	●		
	302	6-708-155-01		#	IC HYS64T64020HDL-3.7-A	●	●		●	●		
		6-708-154-01		#	IC HYS64T128021HDL-3.7-A				●	●	●	
		6-708-860-01		#	IC IC HYMP532S64P6-C4-A				●	●		
⚠[MA]		6-707-351-01		#	IC HYMP564S64P6-C4			●				●
	303	1-761-864-51		#	WIRELESS LAN CARD	●	●	●	●	●		
		1-761-864-71		#	WIRELESS LAN CARD						●	●
	304	A-1146-181-A			RJ5 HEAT SINK UNIT EXT	●	●	●	●	●	●	●
		A-1146-182-A			RJ5 HEAT SINK UNIT INT				●	●		
	305	A-1144-176-A	$	#	COMPLETE PWB MBX-148 EXT	●	●	●	●	●	●	●
		A-1144-786-A	$	#	COMPLETE PWB MBX-148 INT				●	●		
								[MA]⚠				[MA]⚠

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●1) The DIP switch setting, refer to page 4-36 " DIP Switch ".
●1) DIPスイッチの設定は、4-36ページの「DIP Switch」を参照してください。

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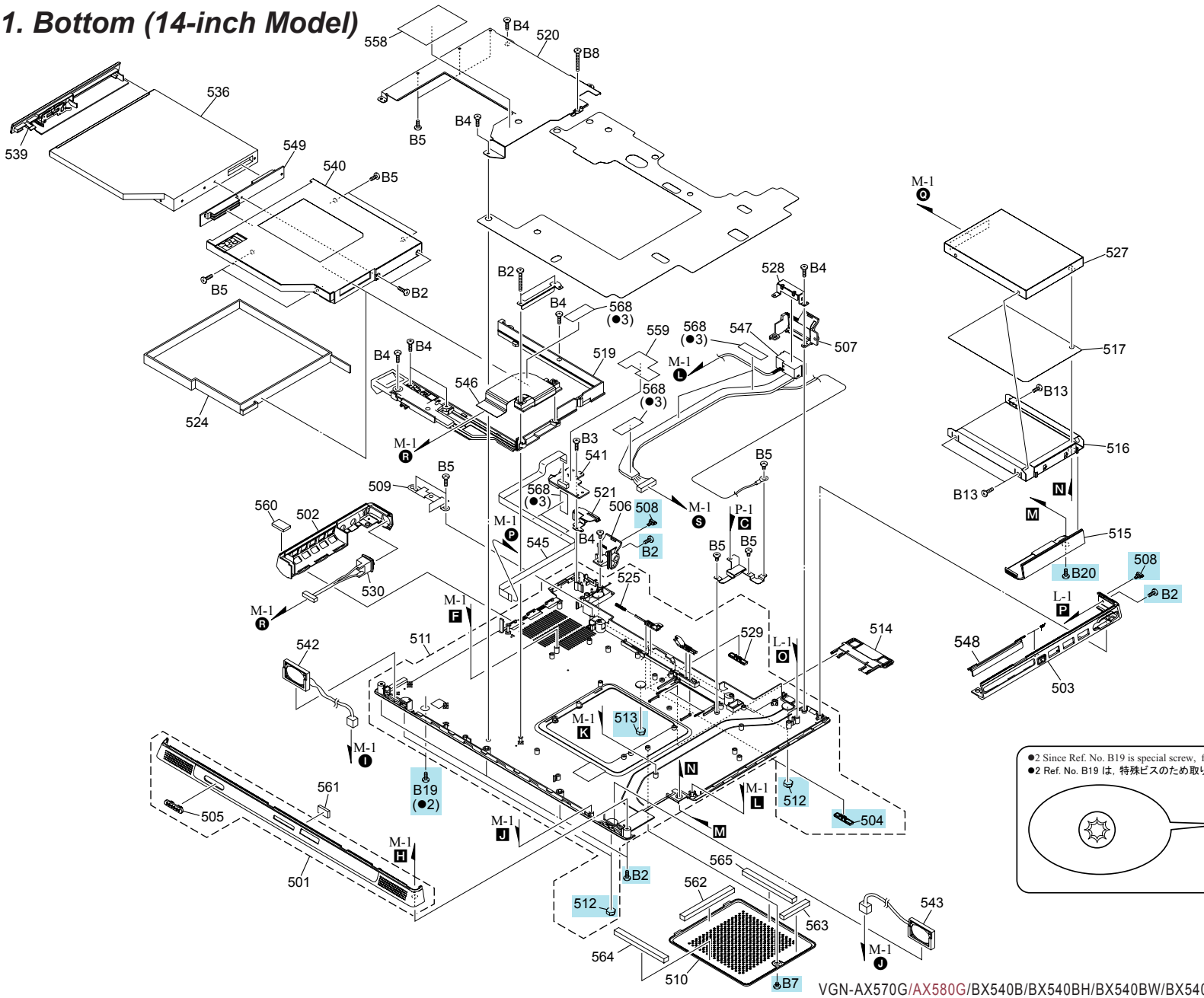
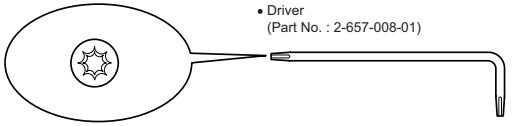
B-1. Bottom (14-inch Model)



●2 Since Ref. No. B19 is special screw, following special tools is needed for removal.
●2 Ref. No. B19 は，特殊ビスのため取り外しには次の専用工具が必要です。

• Driver
(Part No. : 2-657-008-01)



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

B-1. Bottom (14-inch Model)

Ref.No.	Part No.		Description
502	2-639-721-01		RJ1 ESCUSHION LEFT
503	2-639-720-01		RJ1 ESCUSHION RIGHT
504	2-639-737-01	&	RJ1 BUTTON BATTERY R
505	2-639-736-01		RJ1 BUTTON WIRELESS
506	2-639-722-01		RJ1 COVER HINGE L
507	2-639-723-01		RJ1 COVER HINGE R
508	2-639-749-01	&	RJ1 RUBBER COVER HINGE
* 509	2-639-746-01		RJ1 COVER HOOK L
510	X-2067-826-1		RJ1 COVER MEMORY ASSY
511	X-2108-070-1		RJ1 HOUSING BOTTOM
512	2-639-747-01	&	RJ1 RUBBER FOOT
513	2-639-748-01	&	RJ1 RUBBER FOOT C
514	2-639-742-01		RJ1 DOOR DOCKING
515	2-639-751-01		RJ1 DOOR HDD
516	2-639-752-01		RJ1 HOLDER HDD
517	2-639-753-01		RJ1 INSULATOR HDD
519	2-639-758-01		RJ1 GUIDE BAY
* 520	2-639-757-01		RJ1 BRACKET BAY
* 521	2-639-755-01		RJ1 BRACKET DC
524	2-639-701-01		RJ1 WEIGHT SAVER
525	2-639-741-01		RJ1 SPRING HOOK BATTERY L
* 528	2-639-756-01		RJ1 BRACKET LAN
529	2-639-738-01		RJ1 BUTTON BATTERY L
530	1-964-202-11		HARNESS RJ1 DC CABLE
539	X-2102-966-1		RJ1 BEZEL ODD ASSY
540	X-2108-456-1	#	RJ1 CHASSIS ODD ASSY
541	A-1144-165-A	$	COMPLETE PWB IFX-430
542	1-826-269-11		SPEAKER (L-CH)
543	1-826-270-11		SPEAKER (R-CH)
545	1-964-206-11		HARNESS RJ1/2 M/B -> AUDIO
546	1-964-219-11		HARNESS RJ1/2 M/B TO BAY
547	1-964-194-11		HARNESS RJ45+RJ11 CABLE
548	2-639-724-01		RJ1 SHUTTER PCMCIA
549	A-1144-171-A	$	COMPLETE PWB CNX-328
558	2-668-155-01		INSULATOR BKT BAY
559	2-668-118-01		INSULATOR AUDIO RJ1
560	2-667-920-01		COOLING UL SPONGE 4 RJ1
561	2-667-916-01		SPONGE MEMORY LENS RJ1
562	2-668-173-01		CUSHION COV. MEM. 1 RJ1
563	2-668-174-01		CUSHION COV. MEM. 2 RJ1
564	2-668-175-01		CUSHION COV. MEM. 3 RJ1
565	2-668-176-01		CUSHION COV. MEM. 4 RJ1
568	————		KAPTON TAPE (●3)
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B6	2-666-904-01		COSMETIC SCREW FOR HDD
B7	4-672-834-21	&	SCREW, +B EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B13	4-673-018-02		SCREW SPECIAL HEAD
B19	2-657-007-01	&	SECURITY SCREW
B20	A-1168-307-A	&	CHINA SCREW (M3X8) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	J				AM						EU	AO		
					BX50PZ	BX90PS	BX90PS*	BS90S*	BX543B	BX541B	BX546B	BX545FP	BX540B*/BX540BV	BX540BH*/BX540V	BX194VP	BX145CP	BX143CP	BX143C
	501	X-2067-830-1		RJ1 ESCUSHION FR W ASSY			●	●	●	●		●						
		X-2067-829-1		RJ1 ESCUSHION FR WB ASSY	●	●	●	●			●		●	●	●	●	●	●
	527	A-1133-172-A	$ #	HDD (40GB,HTS541040)(-21) (S)	●		●	●					●	●			●	●
		A-1133-171-A	$ #	HDD (60GB,HTS541060)(-21) (S)			●	●		●			●	●		●		
		A-1133-170-A	$ #	HDD (80GB,HTS541080)(-21) (S)			●	●	●		●	●	●	●	●			
		A-1133-169-A	$ #	HDD (100GB,HTS541010)(-21) (S)			●	●					●	●				
		A-1148-380-A	$ #	HDD (ST9120821AS-120GB) (S)			●	●					●	●				
⚠[MA]		A-1133-923-A	$ #	HDD (MK6032GSX-60GB) (S)		●												
	536	1-797-277-11	$ #	COMBO DRIVE (SBW-243)	●	●	●	●		●		●	●	●		●	●	●
		8-457-665-60	$ #	DRIVE, DVD DW-Q58A-VN			●	●	●		●		●	●				
		1-797-366-11	$ #	DVD+-RW (DVR-K16VAS)			●	●					●	●	●			
					⚠[MA]	⚠[MA]					⚠[MA]	⚠[MA]				⚠[MA]	⚠[MA]	⚠[MA]

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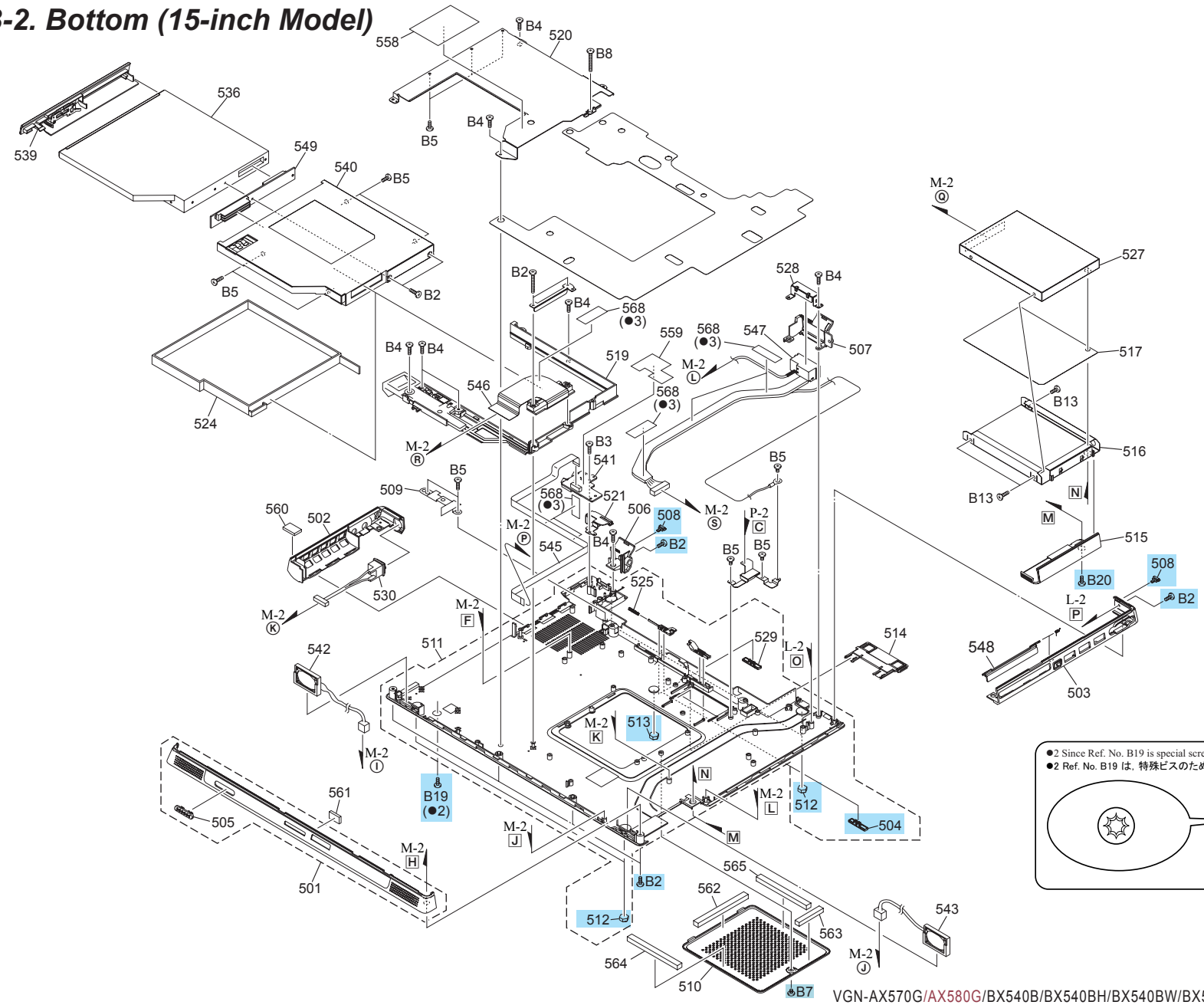
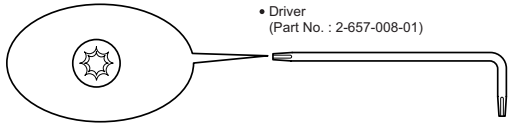
B-2. Bottom (15-inch Model)



●2 Since Ref. No. B19 is special screw, following special tools is needed for removal.
●2 Ref. No. B19 は，特殊ビスのため取り外しには次の専用工具が必要です。

• Driver
(Part No. : 2-657-008-01)



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

B-2. Bottom (15-inch Model)

Ref.No.	Part No.			Description
502	2-639-721-01			RJ1 ESCUSHION LEFT
503	2-639-720-01			RJ1 ESCUSHION RIGHT
504	2-639-737-01		&	RJ1 BUTTON BATTERY R
505	2-639-736-01			RJ1 BUTTON WIRELESS
506	2-651-903-01			RJ2 COVER HINGE L
507	2-651-904-01			RJ2 COVER HINGE R
508	2-639-749-01		&	RJ1 RUBBER COVER HINGE
* 509	2-639-746-01			RJ1 COVER HOOK L
510	X-2067-826-1			RJ1 COVER MEMORY ASSY
511	X-2108-071-1			RJ2 HOUSING BOTTOM ASSY
512	2-639-747-01		&	RJ1 RUBBER FOOT
513	2-639-748-01		&	RJ1 RUBBER FOOT C
514	2-639-742-01			RJ1 DOOR DOCKING
515	2-639-751-01			RJ1 DOOR HDD
516	2-639-752-01			RJ1 HOLDER HDD
517	2-639-753-01			RJ1 INSULATOR HDD
519	2-639-758-01			RJ1 GUIDE BAY
* 520	2-639-757-01			RJ1 BRACKET BAY
* 521	2-639-755-01			RJ1 BRACKET DC
524	2-639-701-01			RJ1 WEIGHT SAVER
525	2-639-741-01			RJ1 SPRING HOOK BATTERY L
* 528	2-639-756-01			RJ1 BRACKET LAN
529	2-639-738-01			RJ1 BUTTON BATTERY L
530	1-964-209-11			HARNESS RJ2,3,5 DC CABLE
536	1-797-366-11	$	#	DVD+-RW (DVR-K16VAS)
539	X-2102-966-1			RJ1 BEZEL ODD ASSY
540	X-2108-456-1		#	RJ1 CHASSIS ODD ASSY
541	A-1144-165-A	$		COMPLETE PWB IFX-430
542	1-826-269-11			SPEAKER (L-CH)
543	1-826-270-11			SPEAKER (R-CH)
545	1-964-206-11			HARNESS M/B -> AUDIO
546	1-964-219-11			HARNESS RJ1/2/3 M/B TO BAY
547	1-964-194-11			HARNESS RJ45+RJ11 CABLE
548	2-639-724-01			RJ1 SHUTTER PCMCIA
549	A-1144-171-A	$		COMPLETE PWB CNX-328
558	2-668-155-01			INSULATOR BKT BAY
559	2-668-118-01			INSULATOR AUDIO RJ1
560	2-667-920-01			COOLING UL SPONGE 4 RJ1
561	2-667-916-01			SPONGE MEMORY LENS RJ1
562	2-668-173-01			CUSHION COV. MEM. 1 RJ1
563	2-668-174-01			CUSHION COV. MEM. 2 RJ1
564	2-668-175-01			CUSHION COV. MEM. 3 RJ1
565	2-668-176-01			CUSHION COV. MEM. 4 RJ1
568	————			KAPTON TAPE (●3)
B2	A-1168-312-A		<&>	CHINA SCREW (M2X8) GP
B3	4-672-836-11			SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01			SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01			SCREW M2 EG
B6	2-666-904-01			COSMETIC SCREW FOR HDD
B7	4-672-834-21		&	SCREW, +B EG GRIP
B8	A-1168-310-A			CHINA SCREW (M2X12) GP
B13	4-673-018-02			SCREW SPECIAL HEAD
B19	2-657-007-01		&	SECURITY SCREW
B20	A-1168-307-A		&	CHINA SCREW (M3X8) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.			Description	EU BX195XP	EU BX195VP	EU BX195EP	EU BX195SP
	501	X-2102-302-1			RJ2 ESCUSHION FR W ASSY		●	●	
⚠[MA]		X-2102-300-1			RJ2 ESCUSHION FR WB ASSY	●			●
	527	A-1133-170-A	$	#	HDD (80GB,HTS541080)(-21) (S)	●	●		●
		A-1133-171-A	$	#	HDD (60GB,HTS541060)(-21) (S)			●	
						⚠[MA]			⚠[MA]

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• この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

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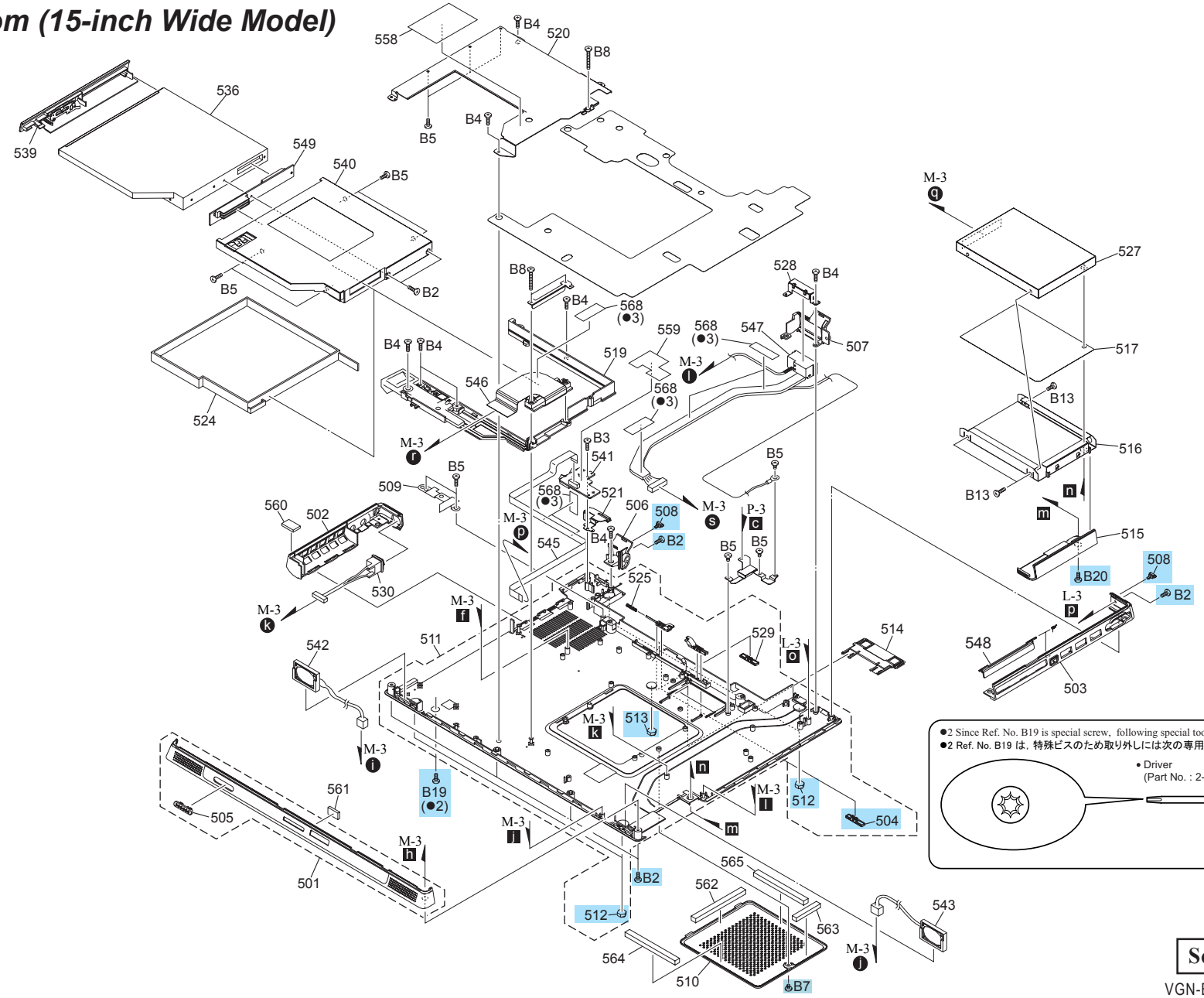
B-3. Bottom (15-inch Wide Model)

⚠ [MA]



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

B-3. Bottom (15-inch Wide Model) ⚠1 [MA]

Ref.No.	Part No.		Description
502	2-651-353-01		RJ3 ESCUSHION LEFT
503	2-651-352-01		RJ3 ESCUSHION RIGHT
504	2-639-737-01	&	RJ1 BUTTON BATTERY R
505	2-639-736-01		RJ1 BUTTON WIRELESS
506	2-651-354-01		RJ3 COVER HINGE L
507	2-651-355-01		RJ3 COVER HINGE R
508	2-639-749-01	&	RJ1 RUBBER COVER HINGE
* 509	2-639-746-01		RJ1 COVER HOOK L
510	X-2067-826-1		RJ1 COVER MEMORY ASSY
511	X-2067-924-1		RJ3 HOUSING BOTTOM ASSY
512	2-639-747-01	&	RJ1 RUBBER FOOT
513	2-639-748-01	&	RJ1 RUBBER FOOT C
514	2-639-742-01		RJ1 DOOR DOCKING
515	2-670-273-01		RJ3 DOOR HDD
516	2-639-752-01		RJ1 HOLDER HDD
517	2-639-753-01		RJ1 INSULATOR HDD
519	2-639-758-01		RJ1 GUIDE BAY
* 520	2-639-757-01		RJ1 BRACKET BAY
* 521	2-639-755-01		RJ1 BRACKET DC
524	2-639-701-01		RJ1 WEIGHT SAVER
525	2-639-741-01		RJ1 SPRING HOOK BATTERY L
* 528	2-639-756-01		RJ1 BRACKET LAN
529	2-639-738-01		RJ1 BUTTON BATTERY L
530	1-964-209-11		HARNESS RJ2,3,5 DC CABLE
539	X-2102-966-1		RJ1 BEZEL ODD ASSY
540	X-2108-456-1	#	RJ1 CHASSIS ODD ASSY
541	A-1144-165-A	$	COMPLETE PWB IFX-430
542	1-826-269-11		SPEAKER (L-CH)
543	1-826-270-11		SPEAKER (R-CH)
545	1-964-444-11		HARNESS RJ3 M/B -> AUDIO
546	1-964-449-11		HARNESS RJ3 M/B -> BAY
547	1-964-194-11		HARNESS RJ45+RJ11 CABLE
548	2-639-724-01		RJ1 SHUTTER PCMCIA
549	A-1144-171-A	$	COMPLETE PWB CNX-328
555	2-670-078-01		rj1_holder_bay_connector
558	2-668-155-01		INSULATOR BKT BAY
559	2-668-118-01		INSULATOR AUDIO RJ1
560	2-667-920-01		COOLING UL SPONGE 4 RJ1
561	2-667-916-01		SPONGE MEMORY LENS RJ1
562	2-668-173-01		CUSHION COV. MEM. 1 RJ1
563	2-668-174-01		CUSHION COV. MEM. 2 RJ1
564	2-668-175-01		CUSHION COV. MEM. 3 RJ1
565	2-668-176-01		CUSHION COV. MEM. 4 RJ1
568	————		KAPTON TAPE (●3)
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B7	4-672-834-21	&	SCREW, +B EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B13	4-673-018-02		SCREW SPECIAL HEAD
B19	2-657-007-01	&	SECURITY SCREW
B20	A-1168-307-A	&	CHINA SCREW (M3X8) GP

(●3) Use the KAPTON TAPE

Ref. No.	Part No.		Description	AM BX567B	AM BX565B	AM BX563B	AM BX561B	AM BX560B*	AM BX560BH*	EU BX196XP	EU BX196VP	EU BX196SP	AO BX168SP	AO BX165CP
501	X-2102-304-1		RJ2 ESCUSHION FR WB ASSY					●	●	●		●	●	●
	X-2102-306-1		RJ2 ESCUSHION FR WB ASSY		●			●	●					
	X-2102-349-1		RJ2 ESCUSHION FR W ASSY	●		●	●				●			
527	A-1133-171-A	$ #	HDD (60GB,HTS541060)(-21) (S)			●		●	●				●	
	A-1133-170-A	$ #	HDD (80GB,HTS541080)(-21) (S)		●			●	●		●			
	A-1133-922-A	$ #	HDD (MK8032GSX-80GB) (S)											
	A-1133-169-A	$ #	HDD (100GB,HTS541010)(-21) (S)	●				●	●	●		●		
	A-1133-172-A	$ #	HDD (40GB,HTS541040)(-21) (S)				●	●	●					●
	A-1148-380-A	$ #	HDD (ST9120821AS-120GB) (S)						●					
536	1-797-277-11	$ #	COMBO DRIVE (SBW-243)			●	●	●	●				●	●
	1-797-366-11	$ #	DVD+-RW (DVR-K16VAS)	●	●			●	●	●	●	●		
	8-457-665-60	$ #	DRIVE, DVD DW-Q58A-VN					●	●					
										⚠2 [MA]			⚠2 [MA]	

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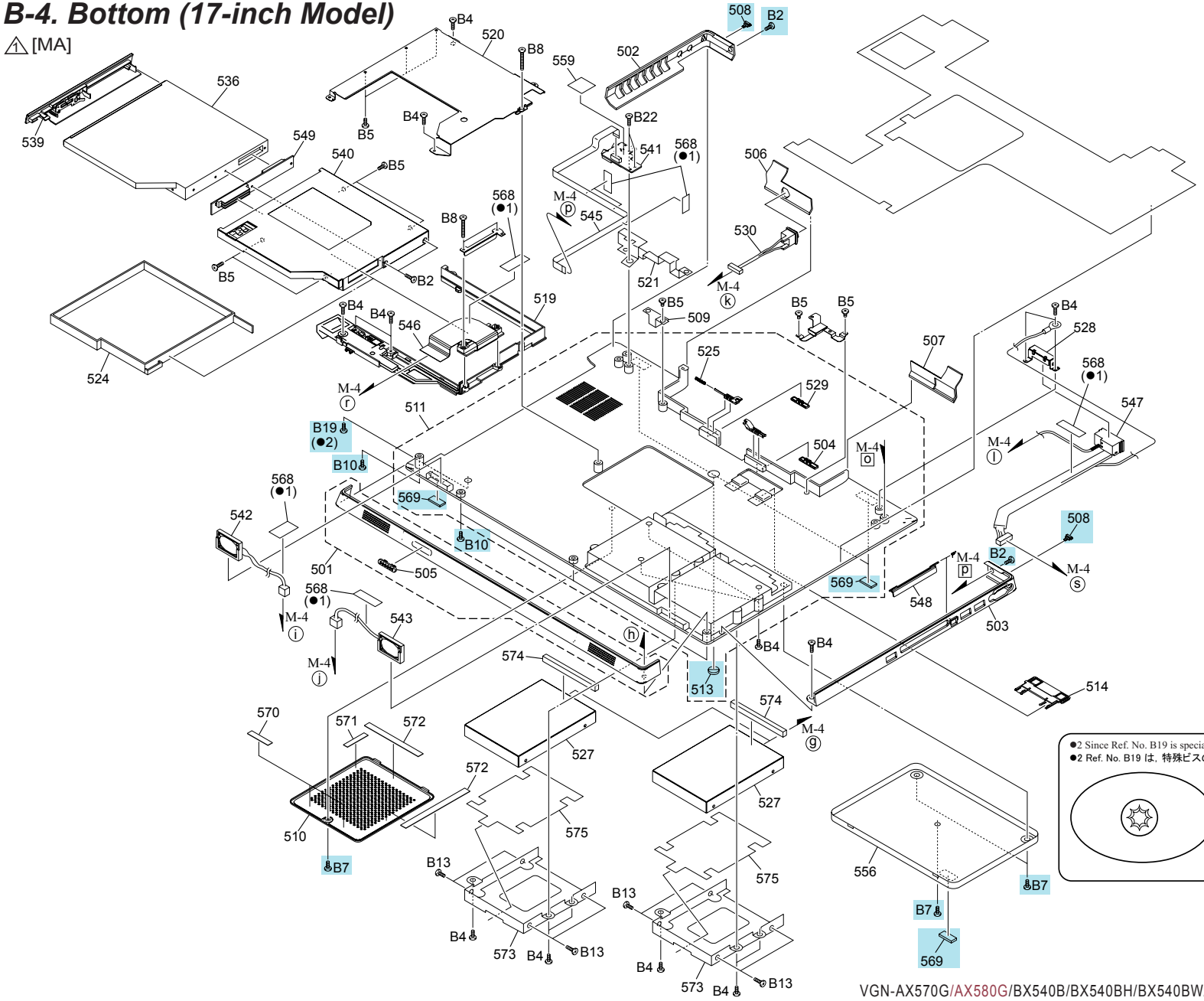
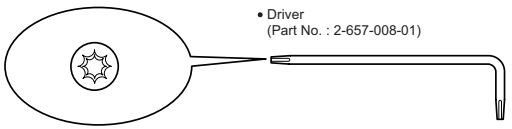
B-4. Bottom (17-inch Model)

⚠ [MA]



●2 Since Ref. No. B19 is special screw, following special tools is needed for removal.
●2 Ref. No. B19 は，特殊ビスのため取り外しには次の専用工具が必要です。

• Driver
(Part No. : 2-657-008-01)



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

B-4. Bottom (17-inch Model) ⚠[MA]

Ref.No.	Part No.		Description
501	X-2102-308-1		RJ5 ESCUSHION FR WB ASSY
502	2-666-576-01		RJ5 ESCUSHION LEFT
503	2-666-575-01		RJ5 ESCUSHION RIGHT
504	2-639-737-01		RJ1 BUTTON BATTERY R
505	2-639-736-01		RJ1 BUTTON WIRELESS
506	2-651-386-01		RJ5 COVER HINGE L
507	2-651-387-01		RJ5 COVER HINGE R
508	2-639-749-01	&	RJ1 RUBBER COVER HINGE
* 509	2-639-746-01		RJ1 COVER HOOK L
510	X-2067-935-1		RJ5 COVER MEMORY ASSY
511	X-2067-936-1		RJ5 HOUSING BOTTOM ASSY
513	2-639-748-01	&	RJ1 RUBBER FOOT C
514	2-639-742-01		RJ1 DOOR DOCKING
519	2-639-758-01		RJ1 GUIDE BAY
* 520	2-639-757-01		RJ1 BRACKET BAY
* 521	2-651-376-01		RJ5 BRACKET DC
524	2-639-701-01		RJ1 WEIGHT SAVER
525	2-639-741-01		RJ1 SPRING HOOK BATTERY L
* 528	2-651-377-01		RJ5 BRACKET LAN
529	2-639-738-01		RJ1 BUTTON BATTERY L
530	1-964-209-11		HARNESS RJ2,3,5 DC CABLE
539	X-2102-966-1		RJ1 BEZEL ODD ASSY
540	X-2108-456-1	#	RJ1 CHASSIS ODD ASSY
541	A-1144-165-A	$	COMPLETE PWB IFX-430
545	1-964-446-11		HARNESS RJ5 M/B -> AUDIO
546	1-964-221-11		HARNESS RJ5 M/B TO BAY
547	1-964-440-11		HARNESS RJ45+RJ11 CABLE FOR RJ
548	2-639-724-01		RJ1 SHUTTER PCMCIA
549	A-1144-171-A	$	COMPLETE PWB CNX-328
556	2-666-578-01		RJ5 DOOR HDD
559	2-668-118-01		INSULATOR AUDIO RJ1
568	————		KAPTON TAPE (●3)
569	2-671-074-01	&	FRONT RUBBER RJ5
570	2-671-073-01		GASKET MEMORY 3 RJ5
571	2-671-071-01		GASKET MEMORY 1 RJ5
572	2-671-072-01		GASKET MEMORY 2 RJ5
573	2-671-089-01		BRACKET HDD RJ5
574	2-671-087-01		SPONG HDD RJ5
575	2-671-088-01		INSULATOR HDD RJ5
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B5	2-022-855-01		SCREW M2 EG
B7	4-672-834-21	&	SCREW, +B EG GRIP
B8	A-1168-310-A		CHINA SCREW (M2X12) GP
B13	4-673-018-02		SCREW SPECIAL HEAD
B19	2-657-007-01	&	SECURITY SCREW
B10	4-671-538-11	&	SCREW(M2X4), SPECIAL HEAD
B22	4-672-836-21		SCREW ,M2 SPECIAL HEAD,EG GRIP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	AM BX575B	AM AX570G	AM AX580G	AM BX570B*	AM BX570BH*	EU BX197XP	AO BX178CP
	527	A-1133-170-A	$ #	HDD (80GB,HTS541080)(-21) (S)	●	●		●	●	●	
		A-1133-169-A	$ #	HDD (100GB,HTS541010)(-21) (S)				●	●		
		A-1133-172-A	$ #	HDD (40GB,HTS541040)(-21) (S)				●	●		●
		A-1133-171-A	$ #	HDD (60GB,HTS541060)(-21) (S)				●	●		
		A-1148-380-A	$ #	HDD (ST9120821AS-120GB) (S)				●	●		
⚠[MA]		A-1133-922-A	$ #	HDD (MK8032GSX-80GB) (S)			●				
	536	8-457-665-60	$ #	DRIVE, DVD DW-Q58A-VN		●	●	●	●		
		1-797-366-11	$ #	DVD+-RW (DVR-K16VAS)	●			●	●	●	
		1-797-277-11	$ #	COMBO DRIVE (SBW-243)				●	●		●
	542	1-826-269-11		SPEAKER (L-CH)	●	●		●	●	●	
⚠[MA]		1-826-386-11		SPEAKER (L-CH) FOR RJ5			●				●
	543	1-826-270-11		SPEAKER (R-CH)	●	●		●	●	●	
⚠[MA]		1-826-387-11		SPEAKER (R-CH) FOR RJ5			●				●
							⚠[MA]				⚠[MA]

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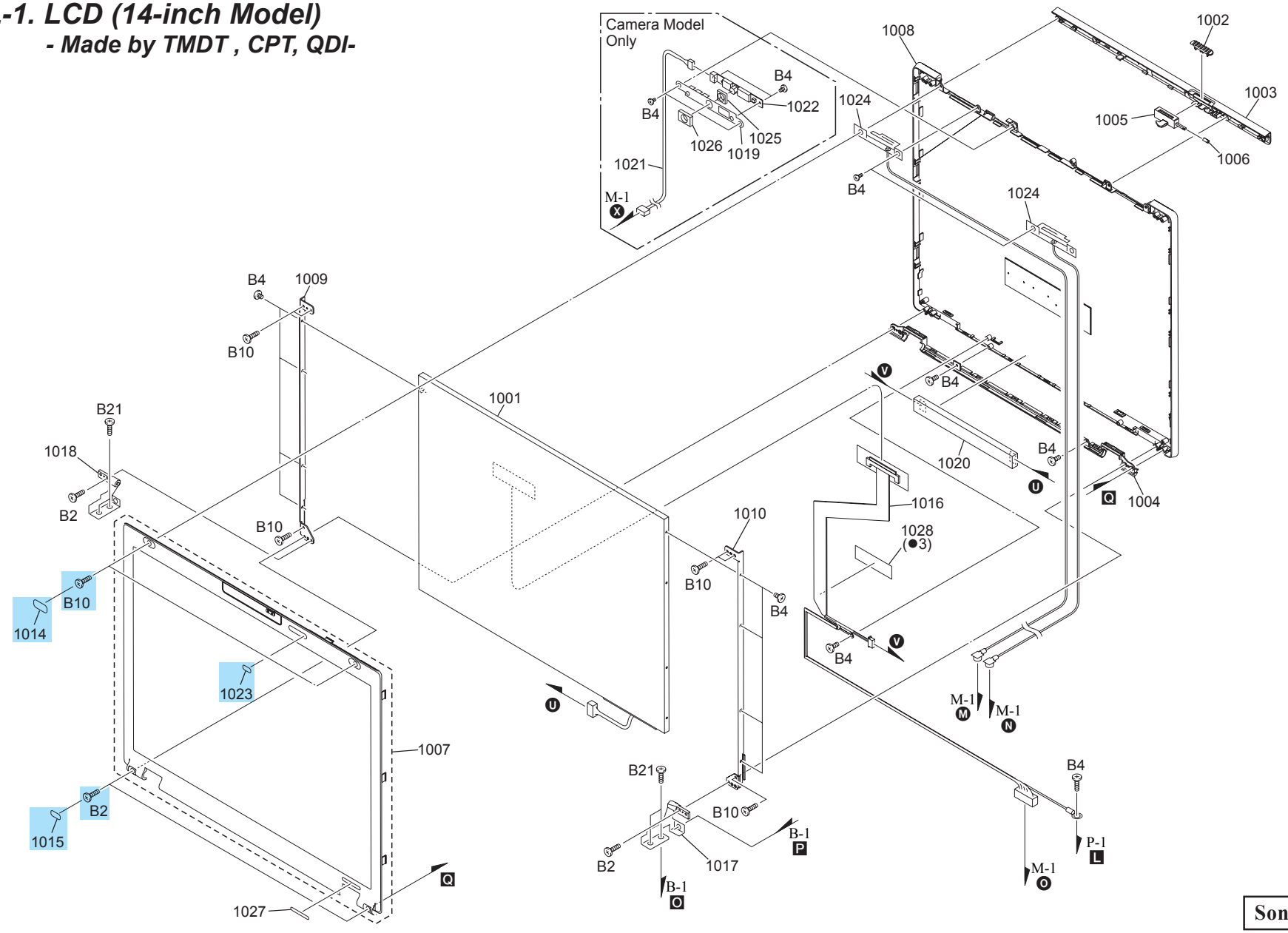
L-1. LCD (14-inch Model)

- Made by TMDT , CPT, QDI-



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

L-1. LCD (14-inch Model)
- Made by TMDT, CPT, QDI -

Ref.No.	Part No.		Description
1002	2-639-789-01		RJ1 BUTTON HOOK
1003	2-639-788-01		RJ1 COVER ANTENA
1004	2-639-787-01		RJ1 COVER HINGE
1005	2-639-790-01		RJ1 HOOK LCD
1006	2-639-791-01		RJ1 SPRING HOOK
1008	X-2108-072-1		RJ1 HOUSING DISPLAY
1014	2-639-803-01	&	CAP BEZEL
1015	2-639-802-01	&	CAP HINGE
* 1017	2-639-798-01		RJ1 HINGE R
* 1018	2-639-799-01		RJ1 HINGE L
1020	1-478-805-31	#	INVERTER UNIT
1023	2-639-795-01	&	RJ1 CUSHION HOOK
1024	1-754-402-11		ANTENNA, WIRELESS
1028	————		KAPTON TAPE (●3)
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B9	2-667-170-01		CHINA SCREW (M2.6X6)
B10	4-671-538-11	<&>	SCREW(M2X4), SPECIAL HEAD
B21	A-1168-311-A		CHINA SCREW (M2.6X6) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	J				AM						EU	AO		
					BX50PZ	BX90PS	BX90PS*	BS90S*	BX543B	BX541B	BX546B	BX545FP	BX540B*/BX540BV*	BX540BH*/BX540V*	BX194VP	BX145CP	BX143CP	BX143C
	1001	A-1149-207-A	$ #	ASSYLCD 14XGA(TMDT)(S)	●		●	●	●	●		●	●	●	●	●	●	●
		A-1090-877-A	$ #	LCD UNIT14.1XGA CLAA141XD(S)			●	●										
		A-1149-208-A	$ #	ASSYLCD 14SXGA+(TMDT)(S)		●	●	●			●							
		A-1149-209-A	$ #	ASSYLCD 14SXGA+(QDI)(S)			●	●										
	1007	X-2108-074-1		RJ1 BEZEL DESPLAY ASSY		●	●	●	●	●			●	●				
		X-2108-075-1		RJ1 BEZEL DESPLAY C ASSY	●		●	●			●	●	●	●	●	●	●	●
	1009	2-650-834-01		RJ1 LCD BK SSSP L		●	●	●			●							
*		2-639-797-01		RJ1 LCD BK SPWG L	●		●	●	●	●		●	●	●	●	●	●	●
	1010	2-650-833-01		RJ1 LCD BK SSSP R		●	●	●			●							
*		2-639-796-01		RJ1 LCD BK SPWG R	●		●	●	●	●		●	●	●	●	●	●	●
	1016	1-964-214-11		HARNESS LVDS CABLE1CHANNEL RJ1	●		●	●	●	●		●	●	●	●	●	●	●
		1-964-216-11		HARNESS LVDS CABLE2CHANNEL RJ1			●	●										
		1-964-218-11		HARNESS LVDSCABLE2CHANNELRJ1-T		●	●	●			●							
*	1019	2-639-800-01		RJ1 BRACKET CAMERA	●		●	●			●	●	●	●	●	●	●	●
	1021	1-964-197-11		HARNESS CAMERA CABLE FOR RJ1	●	●	●	●			●	●	●	●	●	●	●	●
	1022	1-479-519-11		CAMERA MODULE	●		●	●			●	●	●	●	●	●	●	●
	1025	2-669-240-01		RJ1 CAMERA CUSHION	●		●	●			●	●	●	●	●	●	●	●
	1026	2-669-239-01		RJ1 BEZEL CAMERA CUSHION	●		●	●			●	●	●	●	●	●	●	●
	1027	2-656-360-11		LABEL ID (J)		●	●											
		2-656-360-21		LABEL ID (J)				●										
⚠[MA]		2-656-360-01		LABEL ID (J)	●													
⚠[MA]		2-656-361-61		LABEL ID (U)							●							
		2-656-362-01		LABEL ID (L)								●						
⚠[MA]		2-656-364-22		LABEL ID (C)												●		
⚠[MA]		2-656-364-32		LABEL ID (C)													●	
⚠[MA]		2-656-364-42		LABEL ID (C)														●
					⚠[MA]	⚠[MA]					⚠[MA]	⚠[MA]				⚠[MA]	⚠[MA]	⚠[MA]

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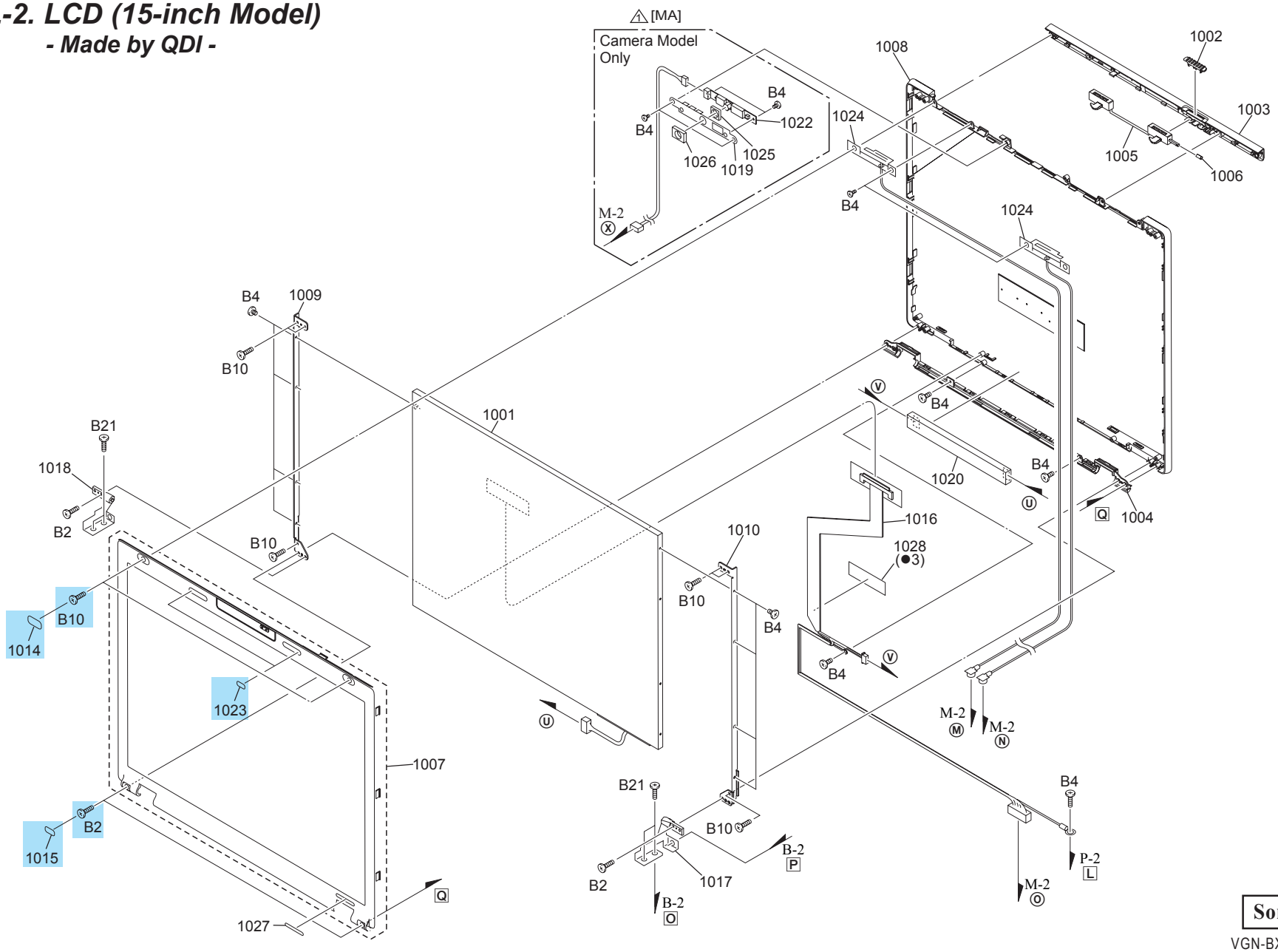
L-2. LCD (15-inch Model)

- Made by QDI -

L-2



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VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

L-2. LCD (15-inch Model)

- Made by QDI -

Ref.No.	Part No.		Description
1001	A-8119-617-A	$ #	ASSY LCD 15XGA(QDI) (S)
1002	2-639-789-01		RJ1 BUTTON HOOK
1003	2-650-837-01		RJ2 COVER ANTENA
1004	2-650-836-01		RJ2 COVER HINGE
1005	2-650-838-01		RJ2 HOOK LCD
1006	2-639-791-01		RJ1 SPRING HOOK
1008	X-2108-073-1		RJ2 HOUSING DISPLAY ASSY
* 1009	2-650-841-01		RJ2 LCD BK SPWG L
* 1010	2-650-840-01		RJ2 LCD BK SPWG R
1014	2-639-803-01	&	CAP BEZEL
1016	1-964-220-11		HARNESS LVDS CABLE1CHANNEL RJ2
* 1017	2-669-237-01		RJ2 HINGE R
* 1018	2-669-238-01		RJ2 HINGE L
1020	1-478-805-31	#	INVERTER UNIT
1023	2-639-795-01	&	RJ1 CUSHION HOOK
1024	1-754-402-11		ANTENNA, WIRELESS
1028	————		KAPTON TAPE (●3)
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B3	4-672-836-11		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B9	2-667-170-01		CHINA SCREW (M2.6X6)
B10	4-671-538-11	<&>	SCREW(M2X4), SPECIAL HEAD
B21	A-1168-311-A		CHINA SCREW (M2.6X6) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	EU BX195XP	EU BX195VP	EU BX195EP	EU BX195SP
	1007	X-2108-076-1		RJ2 BEZEL DISPLAY		●	●	
⚠[MA]		X-2108-077-1		RJ2 BEZEL DESPLAY C ASSY	●			●
	1015	2-669-241-01	&	RJ2 CAP HINGE	●	●	●	
⚠[MA]		2-639-802-01		CAP HINGE				●
⚠[MA] *	1019	2-639-800-01		RJ1 BRACKET CAMERA	●			●
⚠[MA]	1021	1-964-447-11		HARNESS CAMERA FOR RJ2	●			●
⚠[MA]	1022	1-479-519-11		CAMERA MODULE	●			●
⚠[MA]	1025	2-669-240-01		RJ1 CAMERA CUSHION	●			●
⚠[MA]	1026	2-669-239-01		RJ1 BEZEL CAMERA CUSHION	●			●
⚠[MA]	1027	2-656-363-11		LABEL ID (E)	●			
		2-656-363-81		LABEL ID (E)				●

⚠[MA] ⚠[MA]

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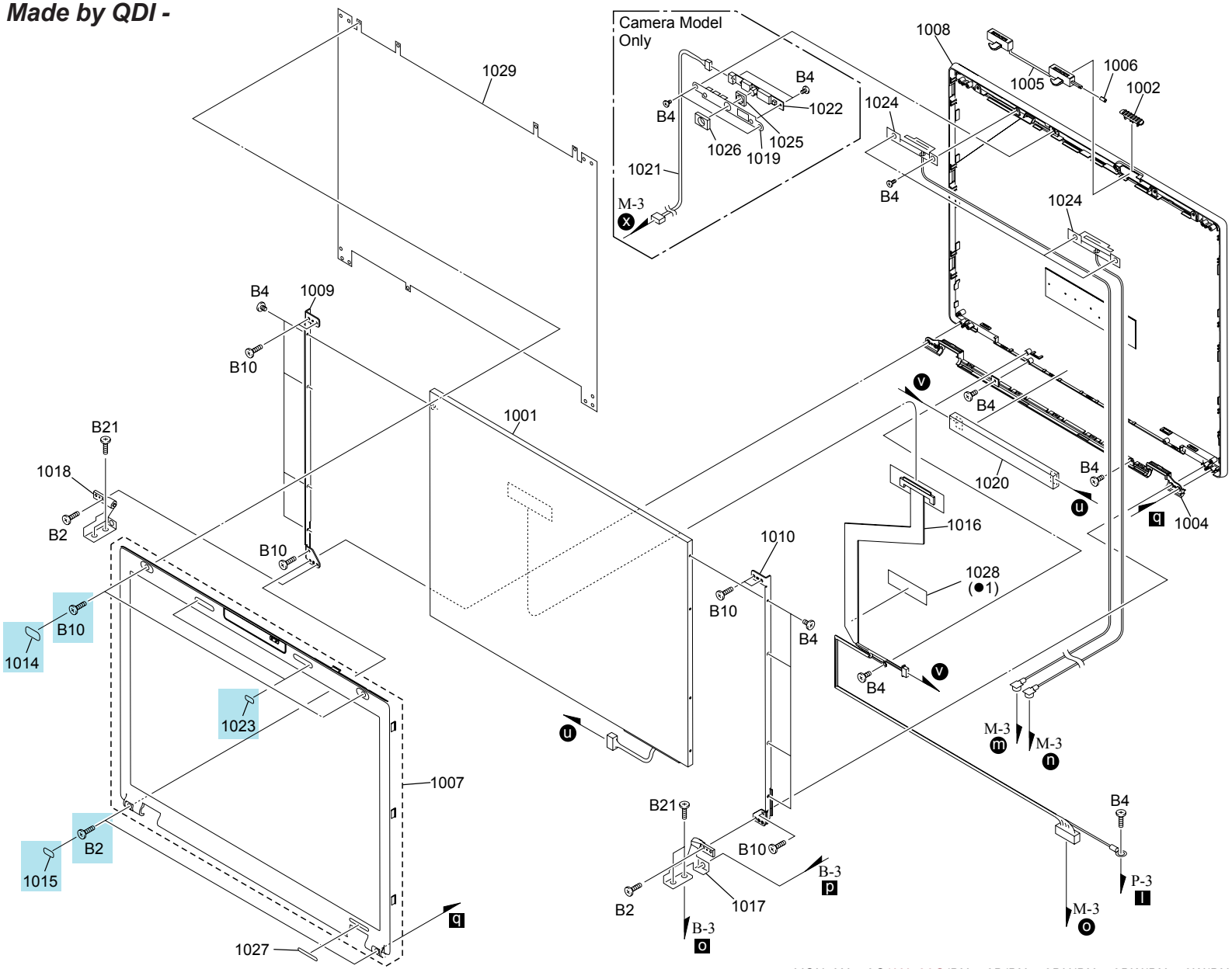
Sony Confidential

L-3. LCD (15-inch Wide Model) ⚠[MA]

- Made by QDI -



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L-3. LCD (15-inch Wide Model) ⚠1 [MA]

- Made by QDI -

Ref.No.	Part No.		Description
1001	A-1132-382-A	$ #	QDI 15.4WXGA LCD GP(S)
1002	2-639-789-01		RJ1 BUTTON HOOK
1004	2-651-365-01		RJ3 COVER HINGE
1005	2-651-367-01		RJ3 HOOK LCD
1006	2-639-791-01		RJ1 SPRING HOOK
1008	X-2108-489-1		RJ3 HOUSING DISPLAY
* 1009	2-650-843-01		RJ3 LCD BK SPWG L
* 1010	2-650-842-01		RJ3 LCD BK SPWG R
1014	2-639-803-01	&	CAP BEZEL
1015	2-639-802-01	&	CAP HINGE
1016	1-964-225-11		HARNESS LVDS CABLE1CHANNELRJ3
* 1017	2-651-362-01		RJ3 HINGE R
* 1018	2-651-363-01		RJ3 HINGE L
1020	1-478-805-31	#	INVERTER UNIT
1023	2-639-795-01	&	RJ1 CUSHION HOOK
1024	1-754-402-11		ANTENNA, WIRELESS
1028	————		KAPTON TAPE (●3)
1029	2-671-194-01		RJ3 SHIELDING LCD
B2	A-1168-312-A	<&>	CHINA SCREW (M2X8) GP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B10	4-671-538-11	<&>	SCREW(M2X4), SPECIAL HEAD
B21	A-1168-311-A		CHINA SCREW (M2.6X6) GP
B21	A-1168-311-A		CHINA SCREW (M2.6X6) GP

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.	Description	AM						EU				AO	
				BX567B	BX565B	BX563B	BX561B	BX560B*	BX560BH*	BX196XP	BX196VP	BX196SP	BX196SP	BX168SP	BX165CP
	1007	X-2108-079-1	RJ3 BEZEL DESPLAY C ASSY		●			●	●	●		●	●	●	
		X-2108-078-1	RJ3 BEZEL DESPLAY ASSY	●		●	●	●	●		●				
	* 1019	2-639-800-01	RJ1 BRACKET CAMERA		●			●	●	●		●	●	●	
	1021	1-964-448-11	HARNESS CAMERA FOR RJ3		●			●	●	●		●	●	●	
	1022	1-479-519-11	CAMERA MODULE		●			●	●	●		●	●	●	
	1025	2-669-240-01	RJ1 CAMERA CUSHION		●			●	●			●	●	●	
	1026	2-669-239-01	RJ1 BEZEL CAMERA CUSHION		●			●	●			●	●	●	
	1027	2-656-361-01	LABEL ID (U)	●											
		2-656-361-11	LABEL ID (U)		●										
		2-656-361-21	LABEL ID (U)			●									
		2-656-361-31	LABEL ID (U)				●								
⚠[MA]		2-656-363-31	LABEL ID (E)							●					
		2-656-363-51	LABEL ID (E)								●				
		2-656-363-71	LABEL ID (E)									●			
⚠[MA]		2-656-364-12	LABEL ID (C)												●
										⚠[MA]				⚠[MA]	

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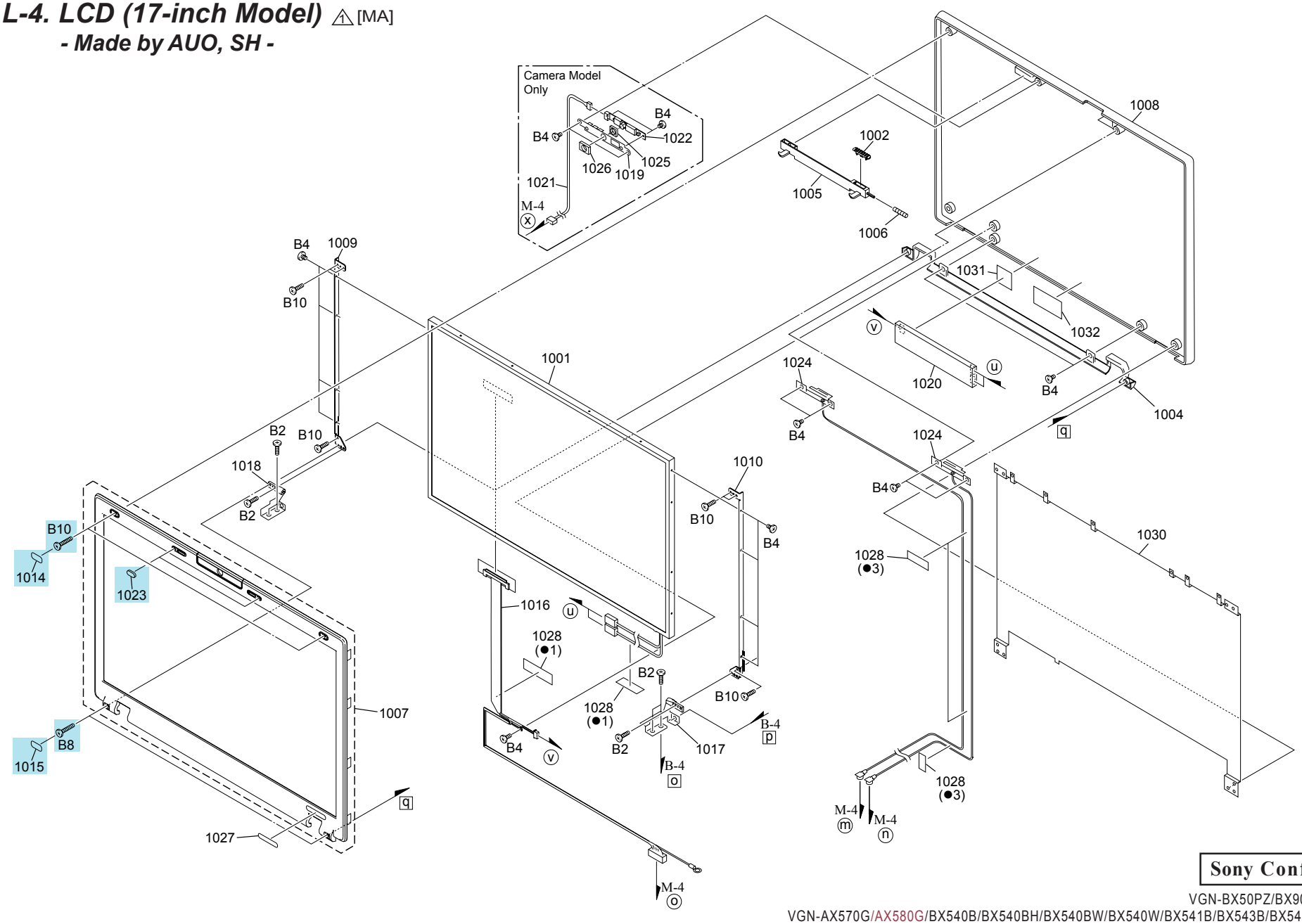
L-4. LCD (17-inch Model) ⚠[MA]

- Made by AUO, SH -



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L-4. LCD (17-inch Model) ⚠[MA]

- Made by AUO, SH -

Ref.No.	Part No.		Description
1002	2-639-789-01		RJ1 BUTTON HOOK
1004	2-651-405-01		RJ5 COVER HINGE
1005	2-651-406-01		RJ5 HOOK LCD
1006	2-639-791-01		RJ1 SPRING HOOK
1007	X-2108-081-1		RJ5 BEZEL DESPLAY C ASSY
1014	2-639-803-01	&	CAP BEZEL
1015	2-639-802-01	&	CAP HINGE
* 1017	2-671-118-01		RJ5 HINGE R
* 1018	2-671-119-01		RJ5 HINGE L
* 1019	2-639-800-01		RJ1 BRACKET CAMERA
1020	1-478-805-31		INVERTER UNIT
1021	1-964-199-11		HARNESS CAMERA CABLE FOR RJ5
1022	1-479-519-11		CAMERA MODULE
1023	2-639-795-01	&	RJ1 CUSHION HOOK
1025	2-669-240-01		RJ1 CAMERA CUSHION
1026	2-669-239-01		RJ1 BEZEL CAMERA CUSHION
1028	————		KAPTON TAPE (●3)
1030	2-671-162-01		RJ5 HEATSINK DISPLAY
1031	2-671-160-01		RJ5 TAPE INVERTER 1
1032	2-671-161-01		RJ5 TAPE INVERTER 2
B2	A-1168-312-A		CHINA SCREW (M2X8) GP
B4	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B8	A-1168-310-A	&	CHINA SCREW (M2X12) GP
B10	4-671-538-11	<&>	SCREW(M2X4), SPECIAL HEAD

(●3) Use the KAPTON TAPE

	Ref. No.	Part No.		Description	AM BX575B	AM AX570G	AM AX580G	AM BX570B*	AM BX570BH*	EU BX197XP	AO BX178CP
	1001	A-1087-141-A	$ #	LCD_UNIT_(17WXGA)_(S)	●	●	●	●	●		
		A-1062-138-A	$ #	LCD_UNIT_(2CFL-17WUXGA)_(S)				●	●	●	●
	1008	X-2067-940-1		RJ5 HOUSING DISPLAY ASSY	●	●		●	●	●	●
⚠[MA]		X-2108-739-1		RJ5 HOUSING DISPLAY GM ASSY			●				
*	1009	2-650-845-01		RJ5 LCD BK AUO L	●	●	●	●	●		
*		2-650-847-01		RJ5 LCD BK SH L				●	●	●	●
*	1010	2-650-844-01		RJ5 LCD BK AUO R	●	●	●	●	●		
*		2-650-846-01		RJ5 LCD BK SH R				●	●	●	●
	1016	1-964-228-11		HARNESS LVDS CABLE2CHANNELRJ5-A	●	●	●	●	●		
		1-964-229-11		HARNESS LVDS CABLE2CHANNELRJ5-S				●	●	●	●
	1024	1-754-402-11		ANTENNA, WIRELESS	●	●		●	●	●	
⚠[MA]		1-754-402-31		ANTENNA, WIRELESS FOR RJ5(17W)			●				●
	1027	2-656-361-81		LABEL ID (U)	●						
		2-656-361-71		LABEL ID (U)		●					
		2-656-363-01		LABEL ID (E)						●	
⚠[MA]		2-675-671-01		LABEL ID (U)			●				
⚠[MA]		2-656-364-71		LABEL ID (C)							●

[MA]⚠ [MA]⚠

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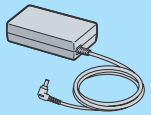
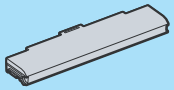
A-1. Accessories

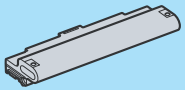
2001
AC Adaptor



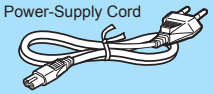
2002
Battery Pack (S)



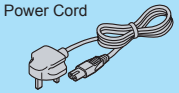
2003
Battery Pack (L)



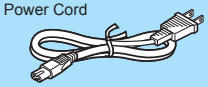
2004
Power-Supply Cord



2005
Power Cord

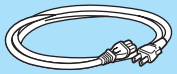


2006
Power Cord

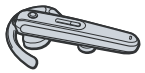


2007
SP Cap

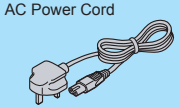
2011
Power Cord



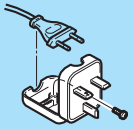
2012
Head Set



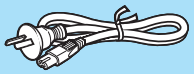
⚠[MA] **2013**
AC Power Cord



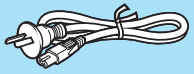
⚠[MA] **2014**
Adaptor Conversion Plug 3P



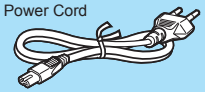
⚠[MA] **2015**
Power Cord



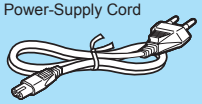
⚠[MA] **2016**
Power Cord



⚠[MA] **2017**
Power Cord



⚠[MA] **2018**
Power-Supply Cord



	Ref. No.	Part No.			Description	J				AM																	EU												AO				
						BX50PZ	BX90PS	BX90PS*	BS90S*	BX567B	BX565B	BX563B	BX561B	BX543B	BX541B	BX575B	BX546B	AX570G	AX580G	BX545FP	BX570B*	BX570BH*	BX560B*	BX560BH*	BX540B*/BX540BV*	BX540BH*/BX540V*	BX195VP	BX194VP	BX194EP	BX197XP	BX196VP	BX196SP	BX195SP	BX195XP	BX196XP	BX168GP	BX165CP	BX145CP	BX143CP	BX143C	BX178CP
	⚠ 2001	1-479-114-51	$	&	ADAPTOR, AC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	⚠ 2002	A-1149-585-A	$	&	BATTERY S-9212 (J)(S)	●	●	●	●																																		
	⚠	A-1149-586-A	$	&	BATTERY S-9212 (U)(S)					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																	
	⚠	A-1149-587-A	$	&	BATTERY S-9212 (E/I/C)(S)																						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	⚠ 2003	A-1149-589-A	$	&	BATTERY L-9211 (U)(S)																●	●	●	●	●	●																	
	⚠ 2004	1-827-481-21		&	(English,French,German,Spanish,Italian)...POWER-SUPPLY CORD																						●	●	●	●	●	●	●										
	⚠ 2005	1-827-946-31		&	(English)...CORD, POWER																						●	●	●	●	●	●	●	●									
	⚠ 2006	1-829-237-21		&	CORD, POWER					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●																
	2007	2-654-424-01		&	SP CAP	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	⚠ 2011	1-790-732-81		&	CORD, POWER	●	●	●	●																																	
	2012	A-1144-728-A			HEADSET(JP)			●	●																																	
⚠[MA]	⚠ 2013	1-823-935-61		&	(English)...CORD, AC POWER																								●													
⚠[MA]	⚠ 2014	1-770-019-61		&	ADAPTOR, CONVERSION PLUG																														●							
⚠[MA]	⚠ 2015	1-824-910-41		&	CORD, POWER																												●							
⚠[MA]	⚠ 2016	1-827-945-31		&	CORD, POWER																												●							
⚠[MA]	⚠ 2017	1-827-947-41		&	CORD, POWER																																●	●	●	●	●
⚠[MA]	⚠ 2018	1-827-481-31		&	POWER-SUPPLY CORD																													●	●							
	-	2-652-628-01		&	Instruction Manual (XP Professional, XP Home Edition)		●	●	●																																	
⚠[MA]	-	2-652-629-01		&	Instruction Manual (XP Professional)	●																																				
	-	1-816-429-12			(English)...PHONE PLUG (GB)																						●	●	●	●	●	●	●	●									
	-	2-652-946-11			LEGAL SAFETY, 3370(U)(C)					●	●	●	●	●	●	●	●			●																							
	-	2-659-797-11			LEGAL SAFETY, 3370(U)(C)													●	●																							
	-	2-652-948-11			LEGAL SAFETY, 3370(U)(M)																●	●	●	●	●	●																	
	-	2-652-945-11			WELCOME MAT, 3370(U)(C)					●	●	●	●	●	●	●	●			●																							
	-	2-659-471-11			WELCOME MAT, 3370(U)(C)													●	●																							
	-	2-652-947-11			WELCOME MAT, 3370(U)(M)																●		●		●																	
⚠[MA]	-	2-664-169-11			WELCOME MAT, 3370(U)(M)																			●																		
⚠[MA]	-	2-652-330-11			TROUBLESHOOTING GUIDE(G)(C)																														●							
⚠[MA]	-	2-652-330-31			TROUBLESHOOTING GUIDE(G)(C)																																		●	●	●	●	●
⚠[MA]	-	2-652-333-11			SAFETY/REGULATIONS 1(G)(C)																														●							
⚠[MA]	-	2-652-333-21			SAFETY/REGULATIONS 1(G)(C)																																		●	●	●	●	●
⚠[MA]	-	2-652-352-11			SPEC SHEET 3370(G)(C)																														●							
⚠[MA]	-	2-668-929-31			SPEC SHEET 3370(G)(C)																																		●				
⚠[MA]	-	2-661-153-31			SPEC SHEET 3370(G)(C)																																		●				
						⚠[MA]	⚠[MA]			⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]		⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]				⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]			⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]	⚠[MA]

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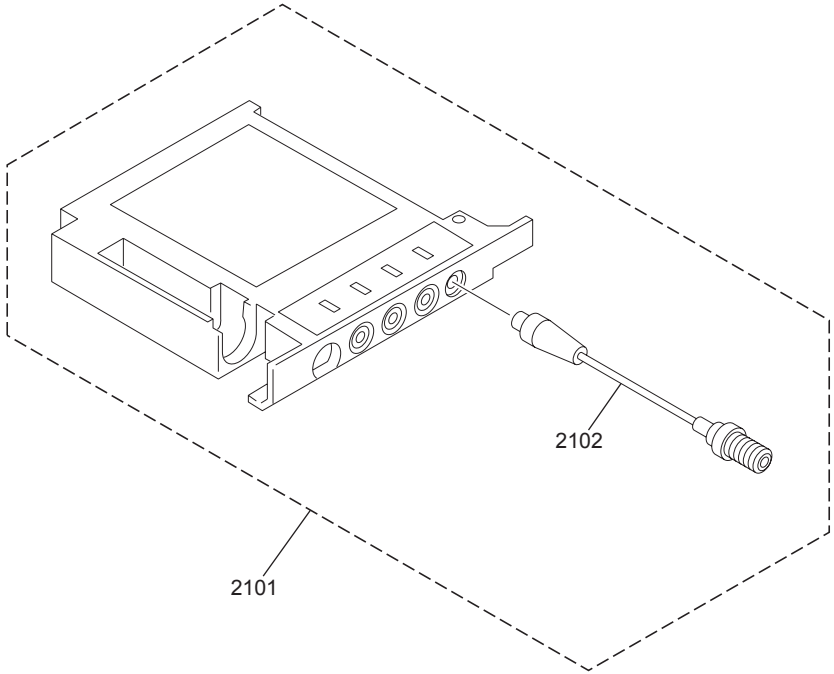
VGN-BX50PZ/BX90PS/BX90S (J)
VGN-AX570G/AX580G/BX540B/BX540BH/BX540BW/BX540W/BX541B/BX543B/BX545FP/
BX546B/BX560B/BX560BH/BX561B/BX563B/BX565B/BX567B/BX570B/BX570BH/BX575B (AM)
VGN-BX194VP/BX195EP/BX195SP/BX195VP/BX195XP/BX196SP/BX196VP/BX196XP/BX197XP (EU)
VGN-BX143C/BX143CP/BX145CP/BX165CP/BX168GP/BX178CP (AO)

A-2. Accessories ⚠[MA]



Ref. No.	Part No.		Description	AM AX570G	AM AX570G
2101	A-1157-924-A	$	TV TUNER GP	●	●
2102	1-964-407-11		HARNESS TV TUNER CABLE	●	●

[MA]▷

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

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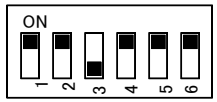
DIP Switch

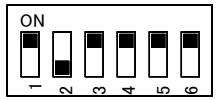
DIP switch setting is different by the type of LCD. For setting methode, please refer to the table below.
DIPスイッチの設定は、LCDの種類によって異なります。設定方法は下の表をご参照ください。

VGN-BX50PZ, BX90PS*, BX90S*(J) [MA]
VGN-BX543B, BX541B, BX540B*, BX540BW*
, BX540BH*, BX540W*, BX545FP, BX546B(AM)
VGN-BX194VP(EU) [MA] [MA]
VGN-BX145CP, BX143CP, BX143C (AO) [MA]
14XGA (TMDT)



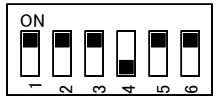
VGN-BX90PS*, BX90S*(J)

14XGA (CPT)



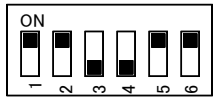
VGN-BX90PS*, BX90S*(J)

14SXGA+ (QDI)



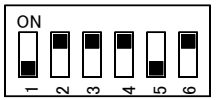
VGN-BX90PS, BX90PS*, BX90S*(J) [MA]

14SXGA+ (TMDT)



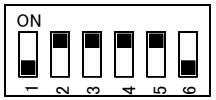
VGN-BX195VP, BX195EP, BX195SP, BX195XP(EU) [MA] [MA]

15XGA (QDI)



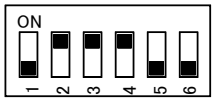
VGN-BX560B*, BX560BH*, BX561B, BX563B
, BX565B, BX567B(AM) [MA]
VGN-BX196SP, BX196VP, BX196XP(EU)
VGN-BX168GP, BX165CP(AO) [MA]

15WXGA (QDI)



[MA]

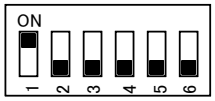
VGN-BX570B*, BX570BH*, AX570G, BX575B
, AX580G(AM) [MA]
17WXGA+ (AUO)



[MA]

VGN-BX570B*, BX570BH*(AM)
VGN-BX197XP(EU)
VGN-BX178CP(AO) [MA]

17WUXGA (SH)



[MA]

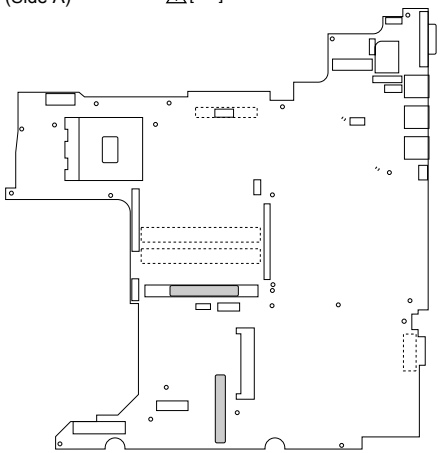
CHAPTER 5.
OTHERS

5-1. The Barcode Label

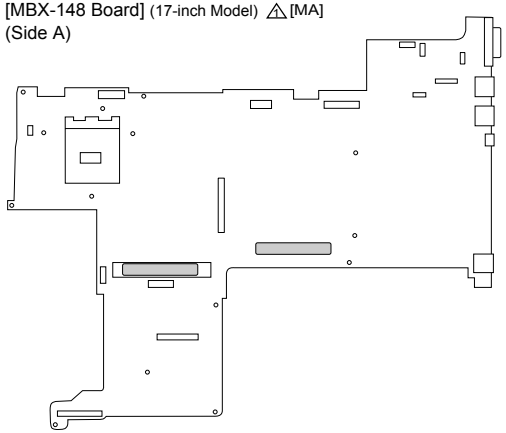
The hatched portion of the barcode label is used as the repair data.

バーコードラベルの網掛け部は，修理データとして使用いたします。

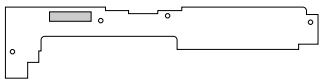
[MBX-134 Board] (14-inch, 15-inch, 15-inch Wide Model)
(Side A) ⚠[MA]



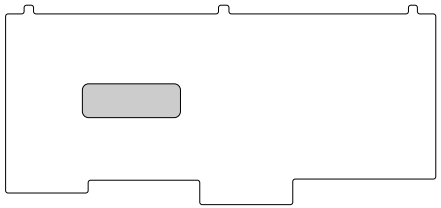
[MBX-148 Board] (17-inch Model) ⚠[MA]
(Side A)



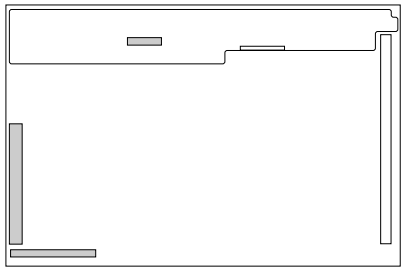
[PWS-51 Board] (14-inch, 15-inch, 15-inch Wide Model)
(Side A) ⚠[MA]



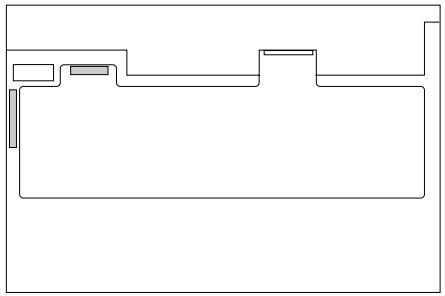
[Key Board]
(Rear)



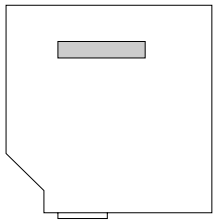
[LCD Unit] (14-inch, 15-inch, 15-inch Wide Model)
(Rear) ⚠[MA]



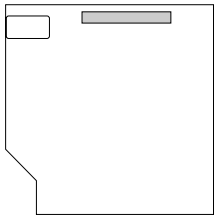
[LCD Unit] (17-inch7 Model) ⚠[MA]
(Rear)



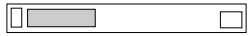
[Optical Pick-Up]
(Top)



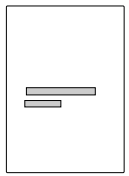
[Optical Pick-Up Bay Unit]
(Top)



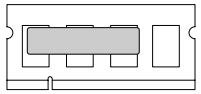
[Inverter Unit] ⚠[MA]
(14-inch, 15-inch, 15-inch Wide Model)
(Top)



[HDD]
(Top)

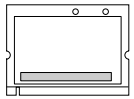


[Memory]
(Top)



[Modem Card]
(Top)

[W LAN Card]
(Top)



A : Part No.
B : Serial No.
C : Revision No.
D : Product Code
E : Maker Barcode
F : Global User ID (iLink)
G : Mac Address
▭ : Barcode

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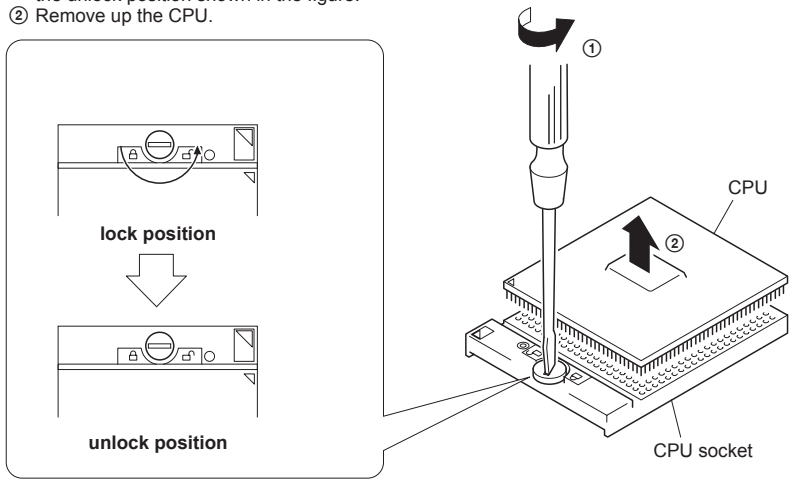
5-2. Replacing the CPU

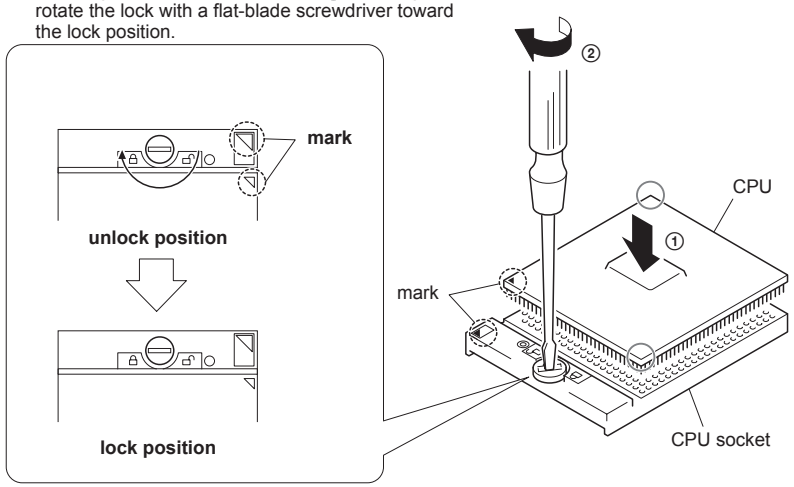
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.



Note: Lock the CPU properly, or operation becomes unstable.

List of VGN-BX Series (As of December, 2005)

Service Manual Parts No.	Model Name			
	J	AM	EU	AO
9-876-420-XX	VGN-BX50PZ	VGN-AX570G	VGN-BX194VP	VGN-BX143C
	VGN-BX90PS	VGN-AX580G	VGN-BX195EP	VGN-BX143CP
	VGN-BX90PS*	VGN-BX540B*	VGN-BX195SP	VGN-BX145CP
	VGN-BX90S*	VGN-BX540BH*	VGN-BX195VP	VGN-BX165CP
		VGN-BX540BW*	VGN-BX195XP	VGN-BX168GP
		VGN-BX540W*	VGN-BX196SP	VGN-BX178CP
		VGN-BX541B	VGN-BX196VP	
		VGN-BX543B	VGN-BX196XP	
		VGN-BX545FP	VGN-BX197XP	
		VGN-BX546B		
		VGN-BX560B*		
		VGN-BX560BH*		
		VGN-BX561B		
		VGN-BX563B		
		VGN-BX565B		
		VGN-BX567B		
		VGN-BX570B*		
		VGN-BX570BH*		
		VGN-BX575B		

* : CTO model
: Additonal model

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English / Japanese
2005L2700-1
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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2005.10.17	First Edition	
-02	Ver. 2	2005.10.25	⚠1 **Front Cover (Model Lineup), Page 1-1, Page 1-2, Page 3-1, Page 3-2, Page 4-1, Page 4-3, Page 4-4, Page 4-5, Page 4-6, Page 4-7, Page 4-8, Page 4-9, Page 4-11, Page 4-12, Page 4-13, Page 4-14, Page 4-15, Page 4-16, Page 4-17, Page 4-19, Page 4-21, Page 4-22, Page 4-23, Page 4- 24, Page 4-25, Page 4-27, Page 4-28, Page 4-29, Page 4-30, Page 4-31, Page 4-32, Page 4-33, Page 4-34, Page 4-35, Page 4-36, Page 5-1, Back Cover**	N2005_064AK
-03	Ver. 3	2005.11.24	⚠2 **Front Cover (Model Lineup), Page 1-1, Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-10, Page 4-11, Page 4-12, Page 4-13, Page 4-14, Page 4-15, Page 4-19, Page 4-21, Page 4-23, Page 4-27, Page 4-29, Page 4-31, Page 4-34, Page 4-36, Back Cover**	N2005_072AK
-04	Ver. 4	2005.12.14	⚠3 **Front Cover (Model Lineup), Page 1-1, Page 1-2, Page 3-1, Page 4-1, Page 4-3, Page 4-9, Page 4-11, Page 4-15, Page 4-17, Page 4-19, Page 4-25, Page 4-27, Page 4-33, Page 4-34, Page 4-35, Page 4-36, Back Cover**	N2005_083AK

<Remarks>

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